



# KPI-2 Polyclonal Antibody

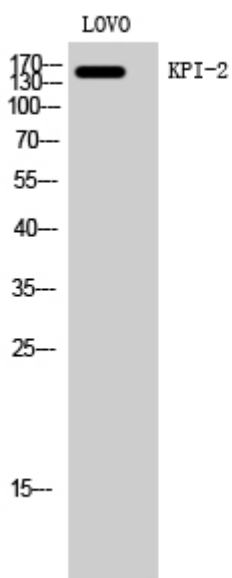
|                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| <b>Catalog No</b>                  | YP-Ab-14808                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Isotype</b>                     | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Reactivity</b>                  | Human;Rat;Mouse;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Applications</b>                | WB;IHC;IF;ELISA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Gene Name</b>                   | LMTK2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Immunogen</b>                   | The antiserum was produced against synthesized peptide derived from human LMTK2. AA range:651-700                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>                 | KPI-2 Polyclonal Antibody detects endogenous levels of KPI-2 protein.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Formulation</b>                 | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>                      | Polyclonal, Rabbit,IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Purification</b>                | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Dilution</b>                    | Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Concentration</b>               | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Purity</b>                      | ≥90%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Storage Stability</b>           | -20°C/1 year                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Synonyms</b>                    | AATYK 2;AATYK2;Apoptosis associated tyrosine kinase 2;Apoptosis-associated tyrosine kinase 2;Brain enriched kinase;Brain-enriched kinase;BREK;CDK5/p35 regulated kinase;CDK5/p35-regulated kinase;CPRK;cyclin-dependent kinase 5/p35-regulated kinase;FLJ46659;hBREK;KIAA179;Kinase phosphatase inhibitor 2;Kinase/phosphatase/inhibitor 2;KPI 2;KPI-2;KPI2;Lemur tyrosine kinase 2;LMR 2;LMR2;LMTK 2;Lmtk2;LMTK2_HUMAN;PPP1R1;protein phosphatase 1; regulatory subunit 1;Serine/threonine protein kinase KPI 2;Serine/threonine protein kinase KPI2;Serine/threonine protein kinase LMTK 2;Serine/threonine protein kinase LMTK2;Serine/threonine-protein kinase KPI-2;Serine/threonine-protein kinase LMTK2;KIAA1079 |
| <b>Observed Band</b>               | 164kD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Calculated Molecular Weight</b> | 164kD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Cell Pathway</b>                | Membrane ; Multi-pass membrane protein .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Tissue Specificity</b>          | Mainly expressed in skeletal muscle, and weakly in brain and pancreas.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |



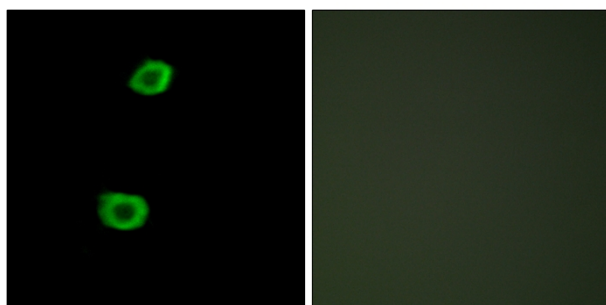
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| <b>Function</b>                      | catalytic activity:ATP + a protein = ADP + a phosphoprotein.,<br>function:Phosphorylates PPP1C, phosphorylase b and CFTR.,online<br>information:LMTK2 entry,PTM:Autophosphorylated. Phosphorylated.,<br>similarity:Belongs to the protein kinase superfamily. Tyr protein kinase family.,<br>similarity:Contains 1 protein kinase domain.,subunit:Interacts with PPP1C and<br>inhibitor-2.,tissue specificity:Mainly expressed in skeletal muscle, and weakly in<br>brain and pancreas.,                                                                                                                                                                                                                                                                                                                         |
| <b>Background</b>                    | The protein encoded by this gene belongs to the protein kinase superfamily and<br>the protein tyrosine kinase family. It contains N-terminal transmembrane helices<br>and a long C-terminal cytoplasmic tail with serine/threonine/tyrosine kinase<br>activity. This protein interacts with several other proteins, such as Inhibitor-2<br>(Inh2), protein phosphatase-1 (PP1C), p35, and myosin VI. It phosphorylates<br>other proteins, and is itself also phosphorylated when interacting with cyclin-<br>dependent kinase 5 (cdk5)/p35 complex. This protein involves in nerve growth<br>factor (NGF)-TrkA signalling, and also plays a critical role in endosomal<br>membrane trafficking. Mouse studies suggested an essential role of this protein<br>in spermatogenesis. [provided by RefSeq, Oct 2009], |
| <b>matters needing<br/>attention</b> | Avoid repeated freezing and thawing!                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Usage suggestions</b>             | This product can be used in immunological reaction related experiments. For<br>more information, please consult technical personnel.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |



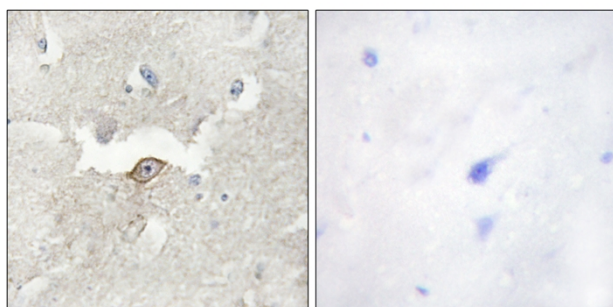
## Products Images



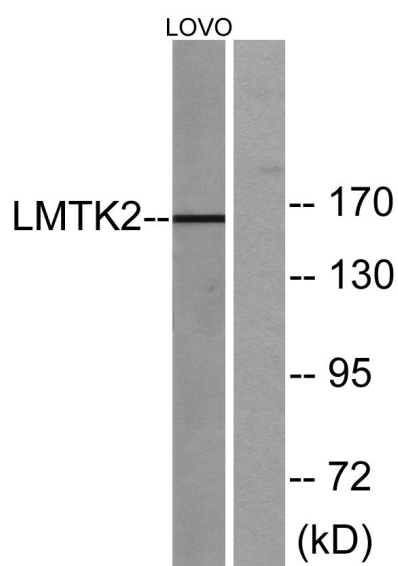
Western Blot analysis of LOVO cells using KPI-2 Polyclonal Antibody



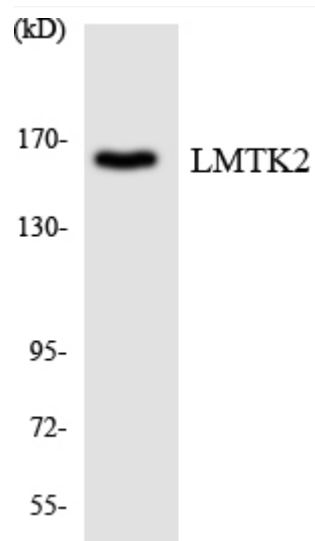
Immunofluorescence analysis of HepG2 cells, using LMTK2 Antibody. The picture on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human brain tissue, using LMTK2 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from LOVO cells, using LMTK2 Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from COLO205 cells using LMTK2 antibody.