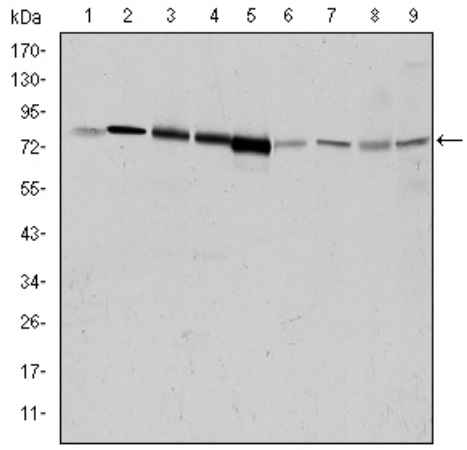
# GRK 2 Monoclonal Antibody

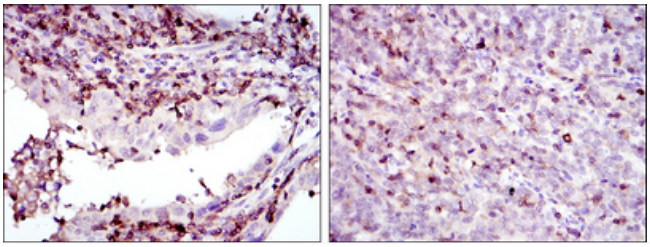
| | |
|---|---|
| **Catalog No** | YP-Ab-14151 |
| **Isotype** | IgG |
| **Reactivity** | Human;Mouse;Rat;Monkey |
| **Applications** | WB;IHC;IF;ELISA |
| **Gene Name** | ADRBK1 |
| **Protein Name** | Beta-adrenergic receptor kinase 1 |
| **Immunogen** | Purified recombinant fragment of human GRK 2 expressed in E. Coli. |
| **Specificity** | GRK 2 Monoclonal Antibody detects endogenous levels of GRK 2 protein. |
| **Formulation** | Ascitic fluid containing 0.03% sodium azide,0.5% BSA, 50%glycerol. |
| **Source** | Monoclonal, Mouse |
| **Purification** | Affinity purification |
| **Dilution** | Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/200 - 1/1000. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/10000. Not yet tested in other applications. |
| **Concentration** | 1 mg/ml |
| **Purity** | ≥90% |
| **Storage Stability** | -20°C/1 year |
| **Synonyms** | ADRBK1; BARK; BARK1; GRK2; Beta-adrenergic receptor kinase 1; Beta-ARK-1; G-protein coupled receptor kinase 2 |
| **Observed Band** | |
| **Cell Pathway** | Cytoplasm . Cell membrane . Cell junction, synapse, postsynapse . Cell junction, synapse, presynapse . |
| **Tissue Specificity** | Expressed in peripheral blood leukocytes. |
| **Function** | catalytic activity:ATP + [beta-adrenergic receptor] = ADP + [beta-adrenergic receptor] phosphate.,catalytic activity:ATP + a protein = ADP + a phosphoprotein.,function:Specifically phosphorylates the agonist-occupied form of the beta-adrenergic and closely related receptors, probably inducing a desensitization of them.,online information:Beta adrenergic receptor kinase entry,similarity:Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. GPRK subfamily.,similarity:Contains 1 AGC-kinase C-terminal domain.,similarity:Contains 1 PH domain.,similarity:Contains 1 protein kinase domain.,similarity:Contains 1 RGS domain.,subunit:Interacts with GIT1 (By similarity). Interacts with, and phosphorylates chemokine-stimulated CCR5.,tissue specificity:Expressed in peripheral blood leukocytes., |
| **Background** | The product of this gene phosphorylates the beta-2-adrenergic receptor and appears to mediate agonist-specific desensitization observed at high agonist concentrations. This protein is an ubiquitous cytosolic enzyme that specifically |

| | |
|---|---|
| | phosphorylates the activated form of the beta-adrenergic and related G-protein-coupled receptors. Abnormal coupling of beta-adrenergic receptor to G protein is involved in the pathogenesis of the failing heart. [provided by RefSeq, Jul 2008], |
| **matters needing attention** | Avoid repeated freezing and thawing! |
| **Usage suggestions** | This product can be used in immunological reaction related experiments. For more information, please consult technical personnel. |

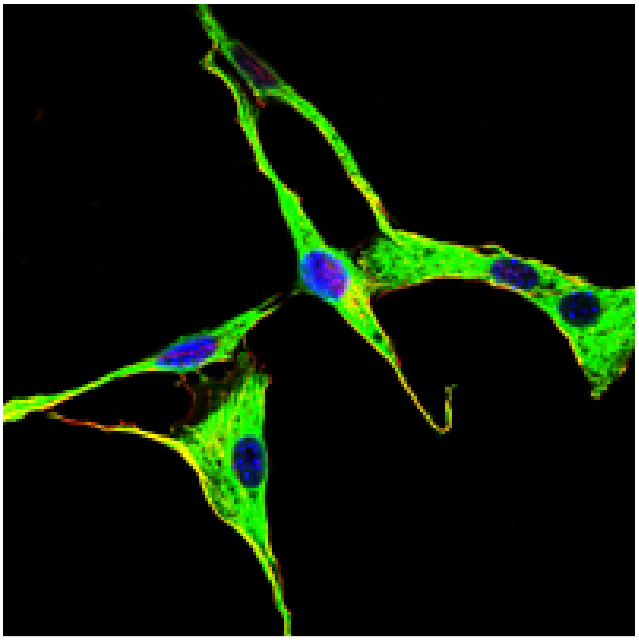
## Products Images



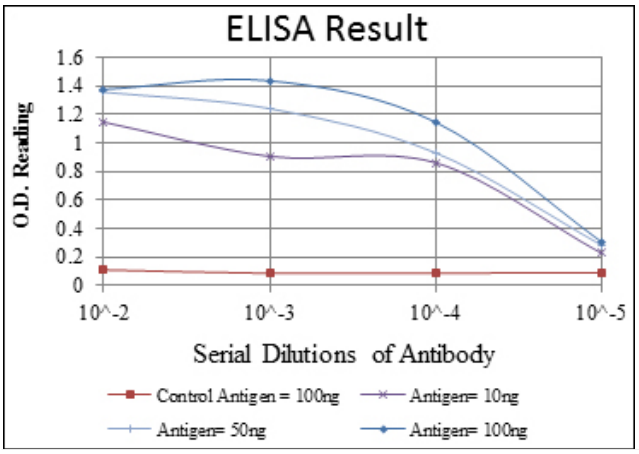

Western Blot analysis using GRK 2 Monoclonal Antibody against HeLa (1), Jurkat (2), MOLT4 (3), RAJI (4), THP-1 (5), L1210 (6), Cos7 (7), PC-12 (8), and NIH/3T3 (9) cell lysate.



Immunohistochemistry analysis of paraffin-embedded endometrial cancer tissues (left) and cervical cancer tissues (right) with DAB staining using GRK 2 Monoclonal Antibody.



Immunofluorescence analysis of NIH/3T3 cells using GRK 2 Monoclonal Antibody (green). Blue: DRAQ5 fluorescent DNA dye.


ELISA Result
O.D. Reading
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
10^-2
10^-3
10^-4
10^-5
Serial Dilutions of Antibody
Control Antigen = 100ng
Antigen= 10ng
Antigen= 50ng
Antigen= 100ng