



CLK2 Polyclonal Antibody

Catalog No	YP-Ab-14710
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC;IF;ELISA
Gene Name	CLK2
Immunogen	The antiserum was produced against synthesized peptide derived from human CLK2. AA range:1-50
Specificity	CLK2 Polyclonal Antibody detects endogenous levels of CLK2 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/20000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	CDC like kinase 2;CDC-like kinase 2;EC:2.7.12.1;CLK2;Dual specificity protein kinase CLK2
Observed Band	60kD
Calculated Molecular Weight	60kD
Cell Pathway	Nucleus .; [Isoform 1]: Nucleus . Nucleus speckle . Inhibition of phosphorylation at Ser-142 results in accumulation in the nuclear speckle. .; [Isoform 2]: Nucleus speckle . Co-localizes with serine- and arginine-rich (SR) proteins in the nuclear speckles. .
Tissue Specificity	Endothelial cells (PubMed:19168442). Expressed in androgen-dependent prostate cancer cells (PubMed:28289210).
Function	catalytic activity:ATP + a protein = ADP + a phosphoprotein., function:Phosphorylates serine- and arginine-rich (SR) proteins of the spliceosomal complex may be a constituent of a network of regulatory mechanisms that enable SR proteins to control RNA splicing. Phosphorylates serines, threonines and tyrosines.,PTM:Autophosphorylates on all three types of residues.,similarity:Belongs to the protein kinase superfamily.,similarity:Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. Lammer subfamily.,similarity:Contains 1 protein kinase domain.,

**Background**

CDC like kinase 2(CLK2) Homo sapiens This gene encodes a dual specificity protein kinase that phosphorylates serine/threonine and tyrosine-containing substrates. Activity of this protein regulates serine- and arginine-rich (SR) proteins of the spliceosomal complex, thereby influencing alternative transcript splicing. Chromosomal translocations have been characterized between this locus and the PAFAH1B3 (platelet-activating factor acetylhydrolase 1b, catalytic subunit 3 (29kDa)) gene on chromosome 19, resulting in the production of a fusion protein. Note that this gene is distinct from the TELO2 gene (GeneID:9894), which shares the CLK2 alias, but encodes a protein that is involved in telomere length regulation. There is a pseudogene for this gene on chromosome 7. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jun 2014],

matters needing attention

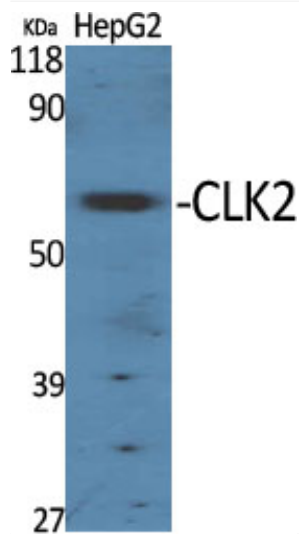
Avoid repeated freezing and thawing!

Usage suggestions

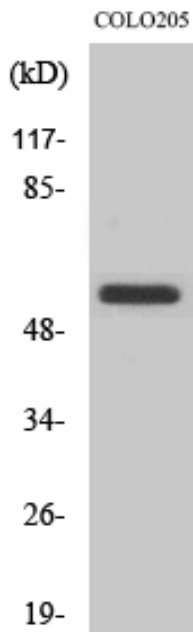
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



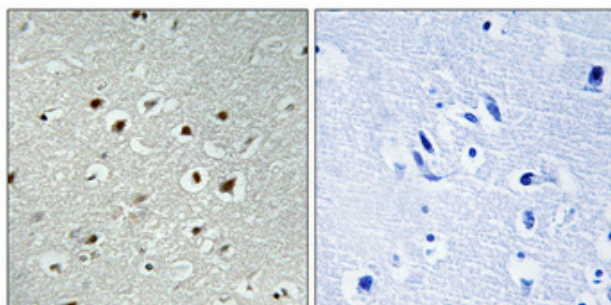
Products Images



Western Blot analysis of various cells using CLK2 Polyclonal Antibody cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Inventbiotech, MN, USA).



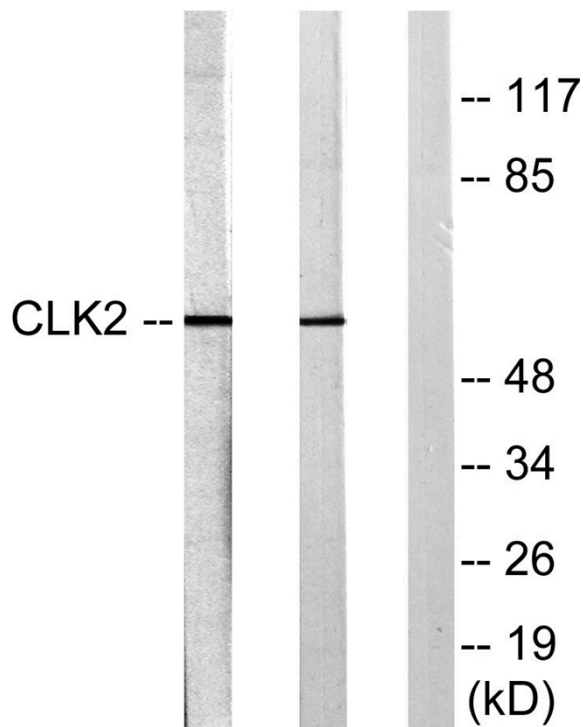
Western Blot analysis of A549 cells using CLK2 Polyclonal Antibody cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Inventbiotech, MN, USA).



Immunohistochemical analysis of paraffin-embedded Human brain. Antibody was diluted at 1:100 (4° overnight). High-pressure and temperature Tris-EDTA, pH 8.0 was used for antigen retrieval. Negative control (right) obtained from antibody was pre-absorbed by immunogen peptide.



COLO 205 A549



Western blot analysis of lysates from COLO205 and A549 cells, using CLK2 Antibody. The lane on the right is blocked with the synthesized peptide.