



DAPK3 Polyclonal Antibody

Catalog No	YP-Ab-14720
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC;IF;ELISA
Gene Name	DAPK3
Immunogen	The antiserum was produced against synthesized peptide derived from human DAPK3. AA range:241-290
Specificity	DAPK3 Polyclonal Antibody detects endogenous levels of DAPK3 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	ZIP kinase;DAP kinase 3;DAP like kinase;DAP-like kinase;Death-associated protein kinase 3;DAPK3;ZIPK;Dlk;MYPT1 kinase;Zipper-interacting protein kinase;ZIP-kinase
Observed Band	52kD
Calculated Molecular Weight	52kD
Cell Pathway	Nucleus . Cytoplasm . Predominantly localizes to the cytoplasm but can shuttle between the nucleus and cytoplasm; cytoplasmic localization is promoted by phosphorylation at Thr-299 and involves Rho/Rock signaling. .; [Isoform 1]: Nucleus . Cytoplasm .; [Isoform 2]: Nucleus . Cytoplasm .
Tissue Specificity	Widely expressed. Isoform 1 and isoform 2 are expressed in the bladder smooth muscle.
Function	catalytic activity:ATP + a protein = ADP + a phosphoprotein., cofactor:Magnesium.,function:Serine/threonine kinase which acts as a positive regulator of apoptosis. Phosphorylates histone H3 on 'Thr-11' at centromeres during mitosis.,similarity:Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. DAP kinase subfamily.,similarity:Contains 1 protein kinase domain.,subcellular location:Relocates to the cytoplasm on binding PAWR where the complex appears to interact with actin filaments (By similarity).



Associates to centromeres from prophase to anaphase.,subunit:Homodimer or forms heterodimers with ATF4. Both interactions require an intact leucine zipper domain and oligomerization is required for full enzymatic activity. Also binds to DAXX and PAWR, possibly in a ternary complex which plays a role in caspase activation. Interacts with AATF and CDC5L.,

Background

Death-associated protein kinase 3 (DAPK3) induces morphological changes in apoptosis when overexpressed in mammalian cells. These results suggest that DAPK3 may play a role in the induction of apoptosis. [provided by RefSeq, Jul 2008],

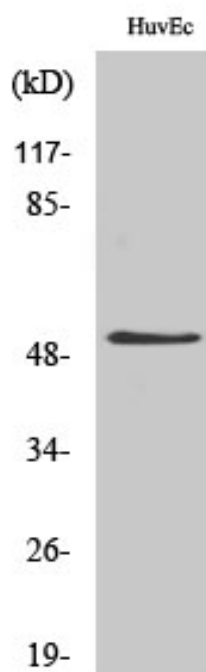
matters needing attention

Avoid repeated freezing and thawing!

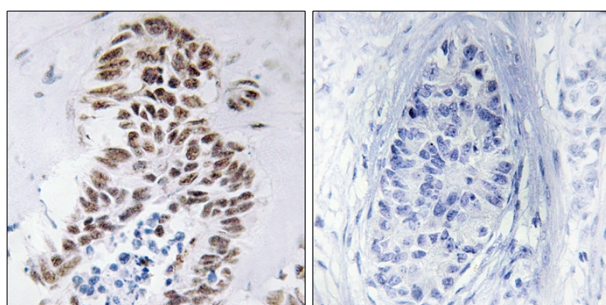
Usage suggestions

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

Products Images



Western Blot analysis of various cells using DAPK3 Polyclonal Antibody



Immunohistochemistry analysis of paraffin-embedded human lung carcinoma tissue, using DAPK3 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from HUVEC cells, using DAPK3 Antibody. The lane on the right is blocked with the synthesized peptide.

