Best Tools for immunology Research

DAPK3 (phospho Thr265) Polyclonal Antibody

Catalog No :	YP0548
Reactivity :	Human;Mouse;Rat
Applications :	WB;IHC;IF;ELISA
Target :	DAPK3
Fields :	>>Autophagy - animal;>>Pathways in cancer;>>Bladder cancer
Gene Name :	DAPK3
Protein Name :	Death-associated protein kinase 3
Human Gene Id :	1613
Human Swiss Prot No :	O43293
Mouse Gene Id :	13144
Mouse Swiss Prot No :	O54784
Rat Gene Id :	64391
Rat Swiss Prot No :	O88764
Immunogen :	The antiserum was produced against synthesized peptide derived from human DAPK3 around the phosphorylation site of Thr265. AA range:241-290
Specificity :	Phospho-DAPK3 (T265) Polyclonal Antibody detects endogenous levels of DAPK3 protein only when phosphorylated at T265.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:10000. Not yet tested in other applications.

Purification : The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Concentration : 1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 52kD

Cell Pathway : Pathways in cancer;Bladder cancer;

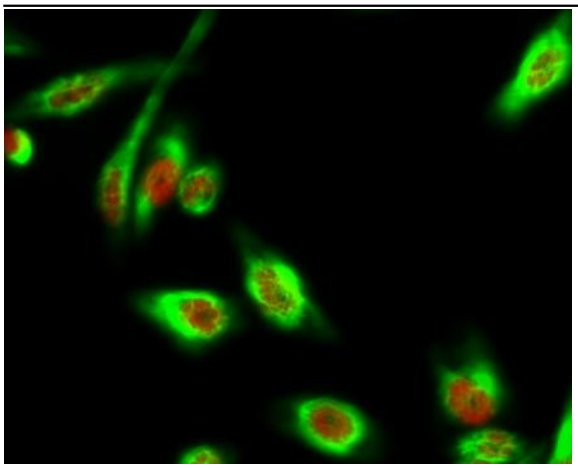
Background : Death-associated protein kinase 3 (DAPK3) induces morphological changes in apoptosis when overexpressed in mammalian cells. These results suggest that DAPK3 may play a role in the induction of apoptosis. [provided by RefSeq, Jul 2008],

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.,

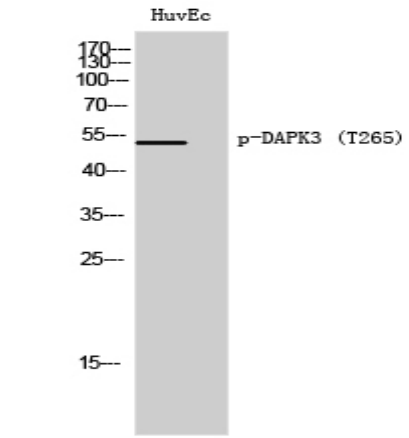
Subcellular Location : Nucleus . Cytoplasm . Predominantly localizes to the cytoplasm but can shuttle between the nucleus and cytoplasm; cytoplasmic localization is promoted by phosphorylation at Thr-299 and involves Rho/Rock signaling. .; [Isoform 1]: Nucleus . Cytoplasm .; [Isoform 2]: Nucleus . Cytoplasm .

Expression : Widely expressed. Isoform 1 and isoform 2 are expressed in the bladder smooth muscle.

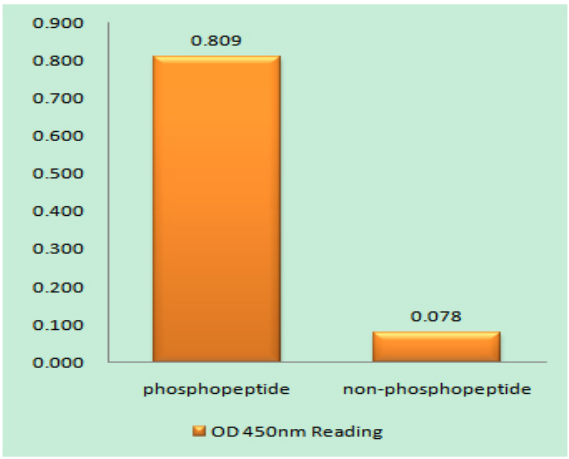
Products Images



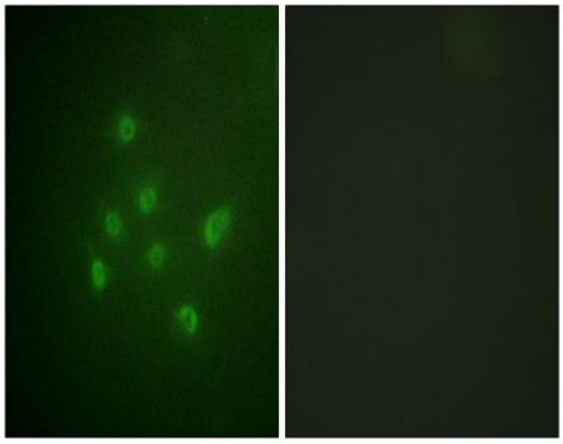
Immunofluorescence analysis of Hela cell. 1,DAPK3 (phospho Thr265) Polyclonal Antibody(red) was diluted at 1:200(4° overnight). α-tubulin Monoclonal Antibody(8F11)(green) was diluted at 1:200(4° overnight). 2, Goat Anti Rabbit Alexa Fluor 594 Catalog:RS3611 was diluted at 1:1000(room temperature, 50min). Goat Anti Mouse Alexa Fluor 488 Catalog:RS3208 was diluted at 1:1000(room temperature, 50min).



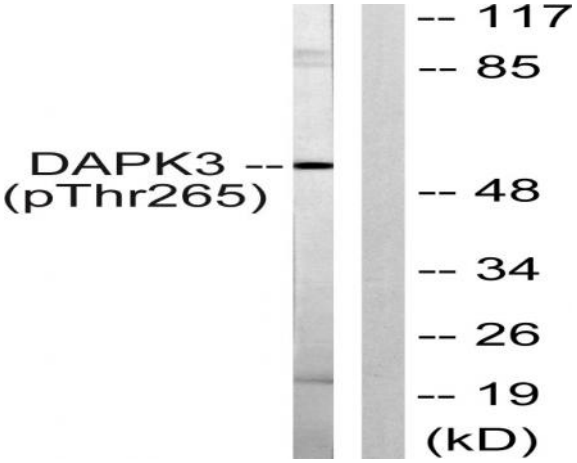
Western Blot analysis of HuvEc cells using Phospho-DAPK3 (T265) Polyclonal Antibody



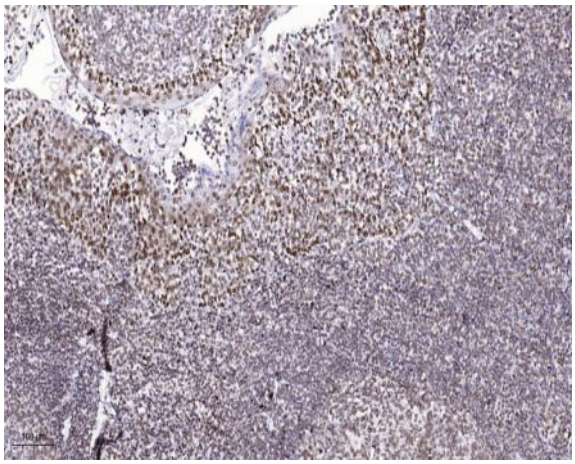
Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using DAPK3 (Phospho-Thr265) Antibody



Immunofluorescence analysis of A549 cells, using DAPK3 (Phospho-Thr265) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from HUVEC cells, using DAPK3 (Phospho-Thr265) Antibody. The lane on the right is blocked with the phospho peptide.



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).