



Rabbit Anti-phospho-DAP Kinase 2 (Ser318) antibody

SL12980R

Product Name:	phospho-DAP Kinase 2 (Ser318)
Chinese Name:	磷酸化凋亡相关蛋白激酶2抗体
Alias:	DAP Kinase 2 (phospho S318); p-DAP Kinase 2 (phospho S318); Death associated protein kinase 2; DAK 2; DAK2; DAP kinase related protein 1; DAPK 2; DAPK2; Death associated protein kinase 2; DRP 1; DRP1; DRP-1; MGC119312; DAP kinase 2; DAP kinase related protein 1; DAP kinase related protein 1 beta isoform; DAP-kinase-related protein 1; DAPK 2; DAPK2; DAPK2_HUMAN; Death associated protein kinase 2; Death-associated protein kinase 2; DRP 1; DRP-1; DRP1; MGC119312.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,Sheep,Guinea Pig,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	41kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthesised phosphopeptide derived from human DAP Kinase 2 around the phosphorylation site of Ser318:KL(p-S)FS
Isotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of

	antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	<p>Protein kinase termed (DAPK2) dependant on calcium/calmodulin (Ca²⁺/CaM) contains an N-terminal protein kinase domain followed by a conserved CaM-binding domain with significant homologies to those of DAP kinase, a protein kinase involved in apoptosis. Overexpression of DAPK2 significantly induced the morphological changes characteristic of apoptosis. Results indicate that DAPK2 is an additional member of DAP kinase family involved in apoptotic signaling.</p> <p>Function: Functions in mitochondrial and peroxisomal division. Mediates membrane fission through oligomerization into ring-like structures which wrap around the scission site to constrict and sever the mitochondrial membrane through a GTP hydrolysis-dependent mechanism. Required for normal brain development. Facilitates developmentally-regulated apoptosis during neural tube development. Required for a normal rate of cytochrome c release and caspase activation during apoptosis. Also required for mitochondrial fission during mitosis. May be involved in vesicle transport. Isoform 1 and isoform 4 inhibit peroxisomal division when overexpressed.</p> <p>Subunit: Homodimer in its autoinhibited state. Active as monomer. Isoform 2 but not isoform 1 can interact with ATF4.</p> <p>Subcellular Location: Cytoplasm. Cytoplasmic vesicle, autophagosome lumen.</p> <p>Tissue Specificity: Ubiquitously expressed with highest levels found in skeletal muscles, heart, kidney and brain. Isoform 1 is brain-specific. Isoform 2 and isoform 3 are predominantly expressed in testis and skeletal muscles respectively. Isoform 4 is weakly expressed in brain, heart and kidney. Isoform 5 is dominantly expressed in liver, heart and kidney. Isoform 6 is expressed in neurons.</p> <p>Post-translational modifications: Autophosphorylation at Ser-318 inhibits its catalytic activity. Dephosphorylated at Ser-318 in response to activated Fas and TNF-alpha receptors.</p> <p>Similarity: Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. DAP kinase subfamily. Contains 1 protein kinase domain.</p> <p>SWISS: Q9UIK4</p>

Gene ID:
23604

Database links:

[Entrez Gene: 23604](#)Human

[Entrez Gene: 13143](#)Mouse

[Entrez Gene: 300799](#)Rat

[Oimim: 604727](#)Human

[SwissProt: Q9UIK4](#)Human

[SwissProt: Q8VDF3](#)Mouse

[Unigene: 237886](#)Human

[Unigene: 304472](#)Mouse

[Unigene: 335252](#)Mouse

[Unigene: 98325](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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