



DAPK2 (phospho Ser318) Polyclonal Antibody

Catalog No	YP-Ab-14571
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	IHC;IF;ELISA
Gene Name	DAPK2
Immunogen	The antiserum was produced against synthesized peptide derived from human DAPK2 around the phosphorylation site of Ser318. AA range:284-333
Specificity	Phospho-DAPK2 (S318) Polyclonal Antibody detects endogenous levels of DAPK2 protein only when phosphorylated at S318.
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	Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/5000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	DAPK2;DAP kinase 2;DAP kinase related protein 1;DAP-kinase-related protein 1;Death-associated protein kinase 2;DRP-1
Observed Band	
Calculated Molecular Weight	
Cell Pathway	Cytoplasm. Cytoplasmic vesicle, autophagosome lumen.
Tissue Specificity	Expressed in neutrophils and eosinophils (PubMed:24163421). Isoform 2 is expressed in embryonic stem cells (at protein level). Isoform 1 is ubiquitously expressed in all tissue types examined with high levels in heart, lung and skeletal muscle.
Function	catalytic activity:ATP + a protein = ADP + a phosphoprotein., cofactor:Magnesium.,enzyme regulation:Negatively regulated by autophosphorylation on Ser-318.,function:Calcium/calmodulin-dependent serine/threonine kinase which acts as a positive regulator of apoptosis., similarity:Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. DAP kinase subfamily.,similarity:Contains 1 protein kinase domain.,subunit:Homodimer. Homodimerization is required for apoptotic function



and is inhibited by autophosphorylation at Ser-318.,tissue specificity:Ubiquitously expressed in all tissue types examined. High levels in heart, lung and skeletal muscle.,

Background

This gene encodes a protein that belongs to the serine/threonine protein kinase family. This protein contains a N-terminal protein kinase domain followed by a conserved calmodulin-binding domain with significant similarity to that of death-associated protein kinase 1 (DAPK1), a positive regulator of programmed cell death. Overexpression of this gene was shown to induce cell apoptosis. It uses multiple polyadenylation sites. [provided by RefSeq, Jul 2008],

matters needing attention

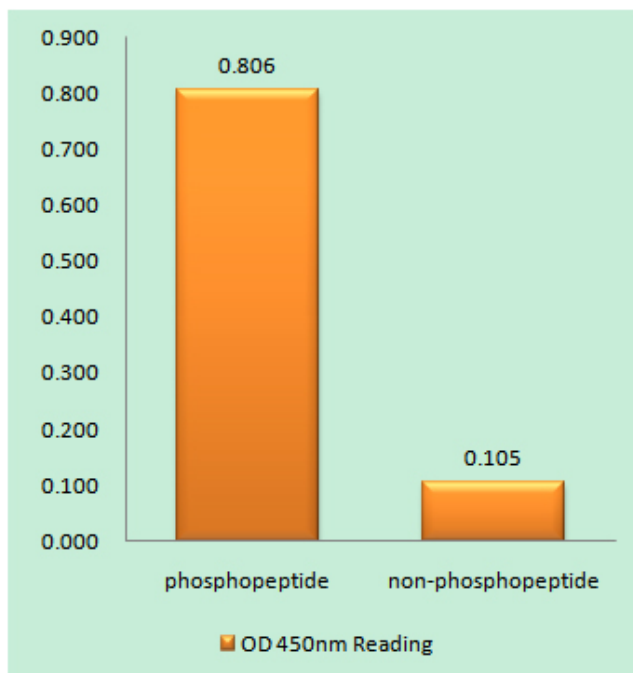
Avoid repeated freezing and thawing!

Usage suggestions

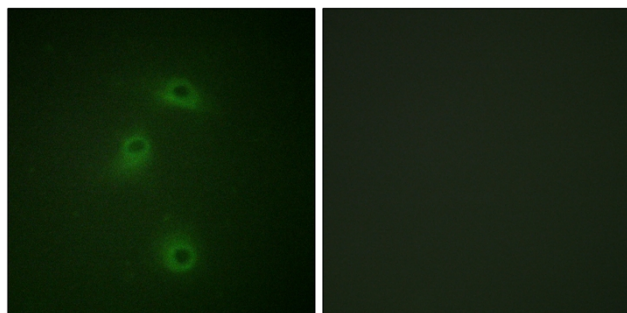
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



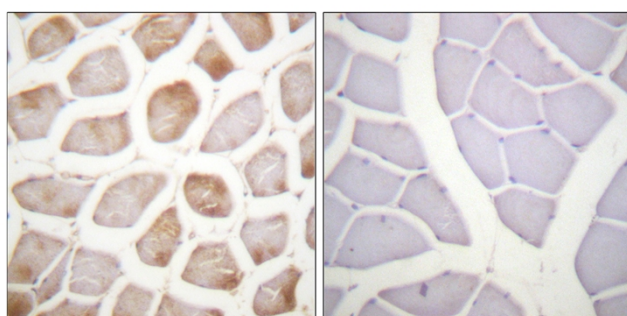
Products Images



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using DAPK2 (Phospho-Ser318) Antibody



Immunofluorescence analysis of COS7 cells, using DAPK2 (Phospho-Ser318) Antibody. The picture on the right is blocked with the phospho peptide.



Immunohistochemistry analysis of paraffin-embedded human skeletal muscle, using DAPK2 (Phospho-Ser318) Antibody. The picture on the right is blocked with the phospho peptide.