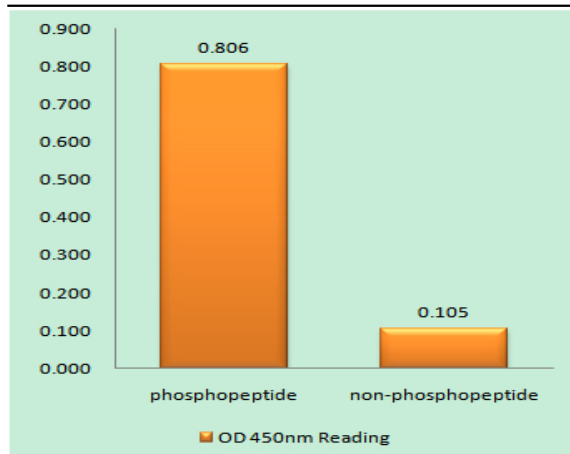


## DAPK2 (phospho Ser318) Polyclonal Antibody

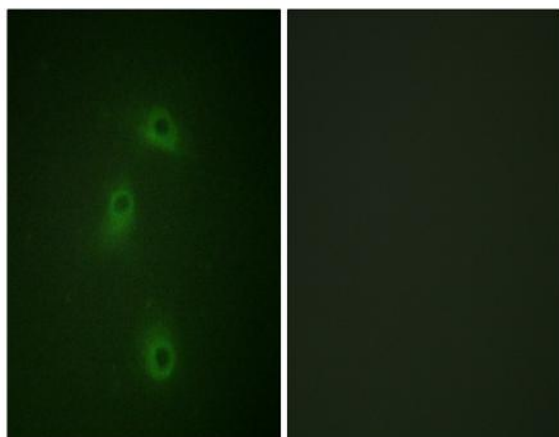
<b>Catalog No :</b>	YP1142
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	IHC;IF;ELISA
<b>Target :</b>	DAPK2
<b>Fields :</b>	>>Autophagy - animal;>>Pathways in cancer;>>Bladder cancer
<b>Gene Name :</b>	DAPK2
<b>Protein Name :</b>	Death-associated protein kinase 2
<b>Human Gene Id :</b>	23604
<b>Human Swiss Prot No :</b>	Q9UIK4
<b>Mouse Gene Id :</b>	13143
<b>Mouse Swiss Prot No :</b>	Q8VDF3
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human DAPK2 around the phosphorylation site of Ser318. AA range:284-333
<b>Specificity :</b>	Phospho-DAPK2 (S318) Polyclonal Antibody detects endogenous levels of DAPK2 protein only when phosphorylated at S318.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:5000. Not yet tested in other applications.
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Molecularweight :</b>	43kD
<b>Cell Pathway :</b>	Pathways in cancer;Bladder cancer;
<b>Background :</b>	<p>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],</p>
<b>Function :</b>	<p>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.,</p>
<b>Subcellular Location :</b>	Cytoplasm. Cytoplasmic vesicle, autophagosome lumen.
<b>Expression :</b>	<p>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.</p>

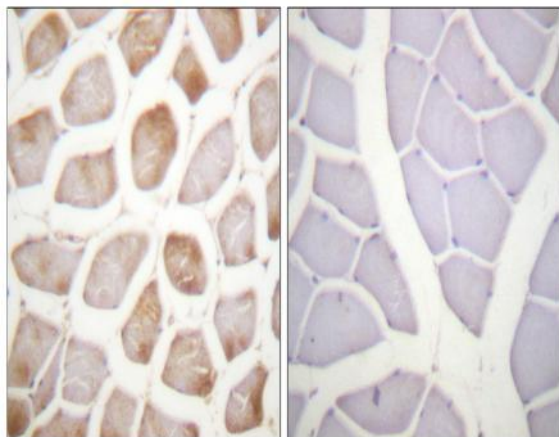
## Products Images



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.