PDK2 Rabbit mAb

Catalog No: #49827

Package Size: #49827-1 50ul #49827-2 100ul



Orders: order@signalwayantibody.com Support: tech@signalwayantibody.com

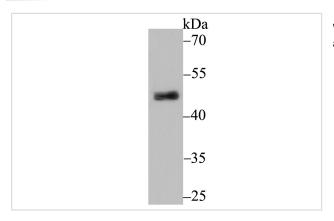
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Product Name	PDK2 Rabbit mAb			
Host Species	Recombinant Rabbit			
Clonality	Monoclonal antibody			
Clone No.	JB66-93			
Purification	ProA affinity purified			
Applications	WB,IHC,FC,IP			
Species Reactivity	Hu, Ms, Rt			
Immunogen Description	Recombinant protein			
Other Names	[Pyruvate dehydrogenase [lipoamide]] kinase isozyme 2 antibody mitochondrial antibody PDHK2			
	antibody PDK2 antibody PDK2 HUMAN antibody Pyruvate dehydrogenase kinase isoform 2 antibody			
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	Pyruvate dehydrogenase kinase, isozyme 2 antibody Pyruvate dehydrogenase lipoamide kinase isozyme 2,			
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Accession No.	Pyruvate dehydrogenase kinase, isozyme 2 antibody Pyruvate dehydrogenase lipoamide kinase isozyme 2,			
Accession No. Uniprot	Pyruvate dehydrogenase kinase, isozyme 2 antibody Pyruvate dehydrogenase lipoamide kinase isozyme 2, mitochondrial antibody			
	Pyruvate dehydrogenase kinase, isozyme 2 antibody Pyruvate dehydrogenase lipoamide kinase isozyme 2, mitochondrial antibody Swiss-Prot#:Q15119			
Uniprot	Pyruvate dehydrogenase kinase, isozyme 2 antibody Mitochondrial antibody Swiss-Prot#:Q15119 Q15119			
Uniprot GeneID	Pyruvate dehydrogenase kinase, isozyme 2 antibody mitochondrial antibody Swiss-Prot#:Q15119 Q15119 5164;			
Uniprot GeneID Calculated MW	Pyruvate dehydrogenase kinase, isozyme 2 antibody mitochondrial antibody Swiss-Prot#:Q15119 Q15119 5164; 46 kDa			

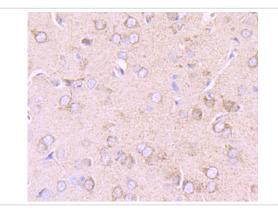
Application Details

WB: 1:500 IHC: 1:50-1:200 FC: 1:50-1:100

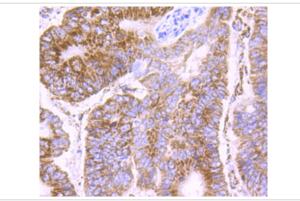
Images



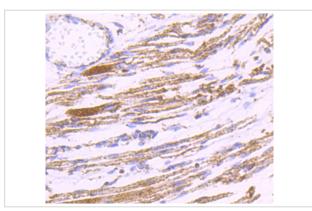
Western blot analysis of PDK2 on rat heart tissue lysate using anti-PDK2 antibody at 1/500 dilution.



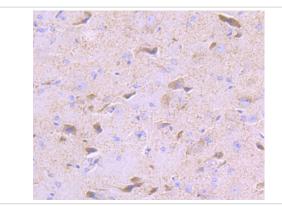
Immunohistochemical analysis of paraffin-embedded rat brain tissue using anti-PDK2 antibody. Counter stained with hematoxylin.



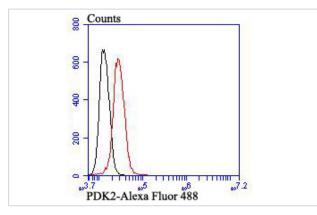
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue using anti-PDK2 antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded human fetal skeletal muscle tissue using anti-PDK2 antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue using anti-PDK2 antibody. Counter stained with hematoxylin.



Flow cytometric analysis of SH-SY-5Y cells with PDK2 antibody at 1/100 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti-rabbit IgG was used as the secondary antibody.

Background

Pyruvate dehydrogenase kinase family members (PDK1, 2, 3, 4) are serine kinases that catalyze the phosphorylation of the E1 α subunit of the pyruvate dehydrogenase complex (PDC). PDC activity is controlled through phosphorylation and dephosphorylation of the E1 α subunit, which leads to inactivation and reactivation, respectively. The core of PDC is composed of sixty dihydrolypoyl acetyltransferase (E2) subunits that bind directly to PDK2 and enhance PDK2 kinase activity. Upregulation of PDK isoenzymes occurs during starvation conditions, rerouting acetyl-CoA generation by facilitating fatty acid oxidation. PDKs contain five conserved regions and are mechanistically similar to bacterial His-kinases, in that both require Histidine residues for activity. In mammals, transcripts for PDK2 are ubiquitously expressed with high levels in heart and skeletal muscle and decreased levels in spleen and lung.

References

Note: This product is for in vitro research use only