

PDK2 Conjugated Antibody

Catalog No: #C49827



Package Size: #C49827-AF350 100ul #C49827-AF405 100ul #C49827-AF488 100ul
 #C49827-AF555 100ul #C49827-AF594 100ul #C49827-AF647 100ul
 #C49827-AF680 100ul #C49827-AF750 100ul #C49827-Biotin 100ul

Orders: order@signalwayantibody.com
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Description

Product Name	PDK2 Conjugated Antibody
Host Species	Rabbit
Clonality	Monoclonal
Species Reactivity	Hu, Ms, Rt
Immunogen Description	Recombinant protein
Conjugates	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Other Names	[Pyruvate dehydrogenase [lipoamide]] kinase isozyme 2 antibody mitochondrial antibody PDHK2 antibody PDK2 antibody PDK2_HUMAN antibody Pyruvate dehydrogenase kinase isoform 2 antibody Pyruvate dehydrogenase kinase, isozyme 2 antibody Pyruvate dehydrogenase lipoamide kinase isozyme 2, mitochondrial antibody
Accession No.	Swiss-Prot#:Q15119
Uniprot	Q15119
GeneID	5164;
Excitation Emission	AF350: 346nm/442nm AF405: 401nm/421nm AF488: 493nm/519nm AF555: 555nm/565nm AF594: 591nm/614nm AF647: 651nm/667nm AF680: 679nm/702nm AF750: 749nm/775nm
Calculated MW	46 kDa
Formulation	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Storage	Store at 4°C in dark for 6 months

Application Details

Suggested Dilution:

AF350 conjugated: most applications: 1: 50 - 1: 250

AF405 conjugated: most applications: 1: 50 - 1: 250

AF488 conjugated: most applications: 1: 50 - 1: 250

AF555 conjugated: most applications: 1: 50 - 1: 250

AF594 conjugated: most applications: 1: 50 - 1: 250

AF647 conjugated: most applications: 1: 50 - 1: 250

AF680 conjugated: most applications: 1: 50 - 1: 250

AF750 conjugated: most applications: 1: 50 - 1: 250

Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1: 50 - 1: 1,000

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.

Note: This product is for in vitro research use only