PDHA1 Conjugated Antibody

Catalog No: #C49389

Package Size: #C49389-AF350 100ul #C49389-AF405 100ul #C49389-AF488 100ul #C49389-AF555 100ul #C49389-AF594 100ul #C49389-AF647 100ul #C49389-AF680 100ul #C49389-AF750 100ul #C49389-Biotin 100ul

Orders: order@signalwayantibody.com
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Description

Product Name	PDHA1 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	ODPA_HUMAN antibody PDH antibody PDHA antibody PDHA1 antibody PDHCE1A antibody PDHE1 A type I antibody PDHE1-A type I antibody PHE1A antibody Pyruvate Dehydrogenase (lipoamide) alpha 1 antibody Pyruvate dehydrogenase complex, E1 alpha polypeptide 1 antibody Pyruvate Dehydrogenase E1 alpha antibody Pyruvate dehydrogenase E1 component subunit alpha, somatic form, mitochondrial antibody
Accession No.	Swiss-Prot#:P08559
Uniprot	P08559
GeneID	5160;
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	43 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

The pyruvate dehydrogenase (PDH) complex is a nuclear-encoded mitochondrial matrix enzyme complex that functions as the primary link between glycolysis and the tricarboxylic acid (TCA) cycle by catalyzing the irreversible conversion of pyruvate into acetyl-CoA. The E1 enzyme of the PDH complex is made up of a heterotetramer of two α and two β subunits. The E1-α subunit (PDH-E1α) contains the E1 active site and plays a key role in the function of the PDH complex. The PDH complex is regulated by phosphorylation and dephosphorylation of PDH-E1α. The gene encoding for PDH-E1α maps to chromosome Xp22.12, and a 20bp deletion in the last exon of this gene is sufficient to cause PDH deficiency, which causes a broad range of symptoms including the development of seizures, mental retardation and spasticity, as well as intermittent episodes of lactic acidosis associated with cerebellar ataxia.

Note: This product is for in vitro research use only