

# CoraLite® Plus 647-conjugated PDH E1 Alpha Monoclonal antibody

Catalog Number: CL647-66119    **Featured Product**

## Basic Information

Catalog Number:	CL647-66119	GenBank Accession Number:	BC002406	Purification Method:	Protein A purification
Source:	Mouse	GenID (NCBI):	5160	CloneNo.:	2B3C10
Isotype:	IgG2a	UNIPROT ID:	P08559	Recommended Dilutions:	FC (Intra): 0.4 ug per 10 <sup>6</sup> cells in a 100 µL suspension
Immunogen Catalog Number:	AG12556	Full Name:	pyruvate dehydrogenase (lipoamide) alpha 1	Excitation/Emission maxima wavelengths:	654 nm / 674 nm
		Calculated MW:	43 kDa		
		Observed MW:	39-48 kDa		

## Applications

Tested Applications:	Positive Controls:
FC (Intra)	FC (Intra): HEK-293 cells,
Species Specificity:	human, mouse, rat

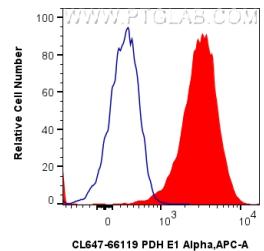
## Background Information

PDHA1(Pyruvate dehydrogenase E1 component subunit alpha, somatic form, mitochondrial) is also named as PHE1A. It is one of the 3 enzymes of the pyruvate dehydrogenase complex which is a nuclear-encoded mitochondrial matrix multienzyme complex that provides the primary link between glycolysis and the tricarboxylic acid (TCA) cycle by catalyzing the irreversible conversion of pyruvate into acetyl-CoA (PMID:7853374). It has 4 isoforms produced by alternative splicing. Defects in PDHA1 are a cause of pyruvate dehydrogenase E1-alpha deficiency (PDHAD) and X-linked Leigh syndrome (X-LS).

## Storage

**Storage:**  
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3  
**Aliquoting is unnecessary for -20°C storage**

## Selected Validation Data



$1 \times 10^6$  HEK-293 cells were intracellularly stained with 0.4 ug Coralite® Plus 647-conjugated PDH E1 Alpha Monoclonal antibody (CL647-66119, Clone:2B3C10)(red), or 0.4 ug Isotype Control (blue). Cells were fixed and permeabilized with Intracellular Flow Cytometry Fixation & Permeabilization Buffer Kit (PF00019).