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Datasheet for ABIN7269768
anti-PDHA1 antibody (pSer293)

3 Images

Overview

Quantity:	100 µL
Target:	PDHA1
Binding Specificity:	pSer293
Reactivity:	Human
Host:	Rabbit
Clonality:	Monoclonal
Conjugate:	This PDHA1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunoprecipitation (IP)

Product Details

Purpose:	Phospho-PDHA1-S293 Rabbit mAb
Immunogen:	A phospho specific peptide corresponding to residues surrounding S293 of human PDHA1
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Phosphorylated Antibodies
Purification:	Affinity purification

Target Details

Target:	PDHA1
Alternative Name:	PDHA1 (PDHA1 Products)

Target Details

Background: The pyruvate dehydrogenase (PDH) complex is a nuclear-encoded mitochondrial multienzyme complex that catalyzes the overall conversion of pyruvate to acetyl-CoA and CO(2), and provides the primary link between glycolysis and the tricarboxylic acid (TCA) cycle. The PDH complex is composed of multiple copies of three enzymatic components: pyruvate dehydrogenase (E1), dihydrolipoamide acetyltransferase (E2) and lipoamide dehydrogenase (E3). The E1 enzyme is a heterotetramer of two alpha and two beta subunits. This gene encodes the E1 alpha 1 subunit containing the E1 active site, and plays a key role in the function of the PDH complex. Mutations in this gene are associated with pyruvate dehydrogenase E1-alpha deficiency and X-linked Leigh syndrome. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Mar 2010],PDHA, PDHAD, PDHCE1A, PHE1A,Cancer,Carbohydrate metabolism,Endocrine & Metabolism,Mitochondrial metabolism,Mitochondrial metabolism_Mitochondrial markers,Signal Transduction,Warburg Effect,PDHA1

Molecular Weight: 40kDa

Gene ID: 5160

UniProt: [P08559](#)

Pathways: [Warburg Effect](#)

Application Details

Application Notes: WB,1:500 - 1:2000,IF,1:50 - 1:200,IP,1:50 - 1:200

Restrictions: For Research Use only

Handling

Format: Liquid

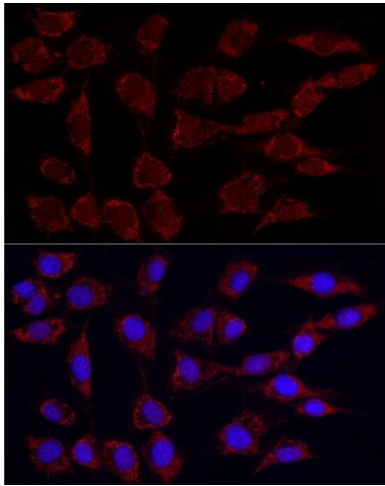
Buffer: PBS with 0.02 % sodium azide,0.05 % BSA,50 % glycerol, pH 7.3.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

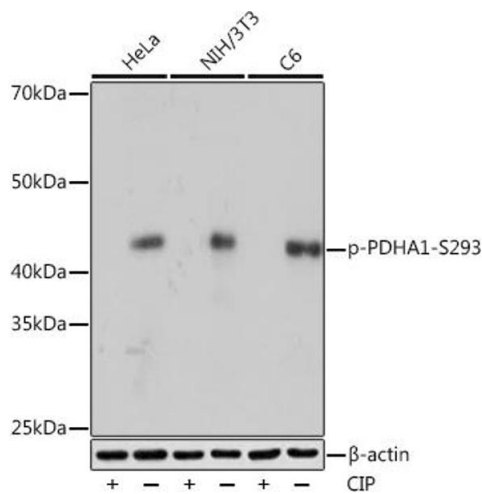
Storage: -20 °C

Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.



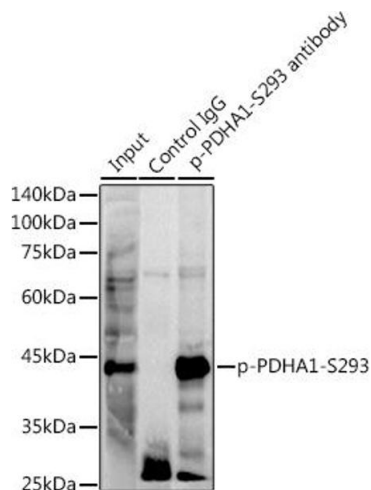
Immunofluorescence

Image 1. Immunofluorescence analysis of NIH/3T3 using Phospho-PDH-S293 Rabbit mAb (ABIN7269768) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using Phospho-PDH-S293 Rabbit mAb (ABIN7269768) at 1:1000 dilution. HeLa cells and NIH/3T3 cells and C6 cells were treated by CIP (20uL/400 μL) at 37 °C for 1 hour. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 μg per lane. Blocking buffer: 3 % BSA. Detection: ECL Basic Kit (RM00020). Exposure time: 3s.



Immunoprecipitation

Image 3. Immunoprecipitation analysis of 300 μg extracts of NIH/3T3 cells using 3 μg Phospho-PDH-S293 antibody (ABIN7269768). Western blot was performed from the immunoprecipitate using Phospho-PDH-S293 antibody (ABIN7269768) at a dilution of 1:1000.