

Anti-PDHE1 Antibody (8V568)

Product Details

Ig Type:	IgG2a, Kappa
Reactivity:	Human
Clone:	8V568
Purification:	Protein G purified

Applications

Verified Activity:	1. Cell line: HepG2
	Fixative: 100% Ice-cold methanol
	Permeabilization: 0.1% TritonX-100
	Primary Ab dilution: 1:50
	Primary incubation condition: 4°C overnight Nuclear counter stain: DAPI (Blue)
	Comment: Color green is the positive signal for TMAB-10128
	2. Blocking buffer: 5% NFDM/TBST
	Primary Ab dilution: 1:1000
	Primary Ab incubation condition: 4°C overnight
	Lysate: 1: HeLa, 2: HEK-293, 3: MCF-7, 4: Jurkat
Protein loading quantity: 20 µg	
Exposure time: 30 s	
Predicted MW: 43 kDa	
Observed MW: 43 kDa	
Application:	WB,ICC/IF
Recommended	WB: 1:500-1000; ICC/IF: 1:100-500

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Research Background

The pyruvate dehydrogenase (PDH) complex is a nuclear-encoded mitochondrial multienzyme complex that catalyzes the overall conversion of pyruvate to acetyl-CoA and CO₂, 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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