Data Sheet (Cat.No.TMAC-03129)

TargetMol

Anti-PDHA1 Antibody (9B780)

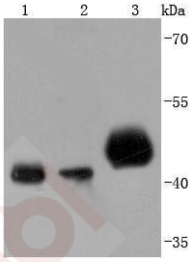
Product Details

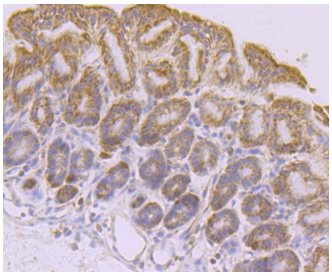
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 43 kDa.
Clone:	9B780
Purification:	ProA affinity purified

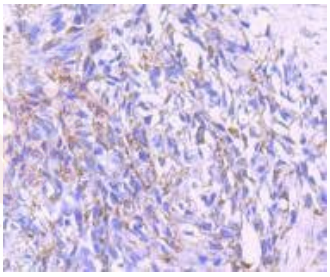
Applications

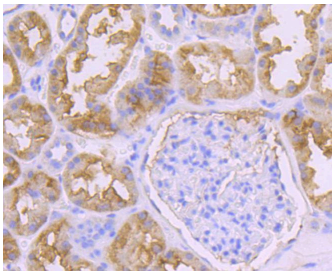
Verified Activity:

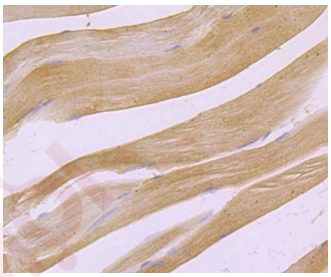
1. Western blot analysis of PDHA1 on different lysates using anti-PDHA1 antibody at 1/1,000 dilution. Positive control: Lane 1: 293T, Lane 2: A431, Lane 3: Mouse heart.
2. Immunohistochemical analysis of paraffin-embedded mouse stomach tissue using anti-PDHA1 antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using anti-PDHA1 antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-PDHA1 antibody. Counter stained with hematoxylin.
5. Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue using anti-PDHA1 antibody. Counter stained with hematoxylin.
6. Immunohistochemical analysis of paraffin-embedded human lung cancer tissue using anti-PDHA1 antibody. Counter stained with hematoxylin.
7. Immunohistochemical analysis of paraffin-embedded mouse colon tissue using anti-PDHA1 antibody. Counter stained with hematoxylin.
8. ICC staining PDHA1 in Hela cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
9. ICC staining PDHA1 in HepG2 cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
10. ICC staining PDHA1 in SH-SY-5Y cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
11. Flow cytometric analysis of Hela cells with PDHA1 antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.

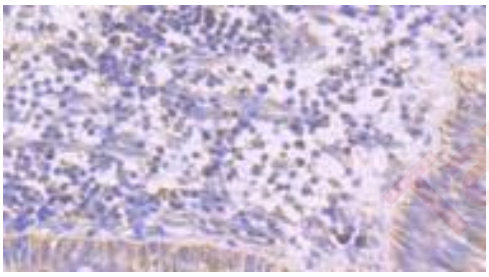


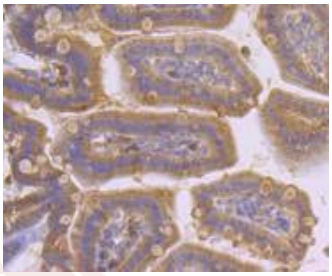


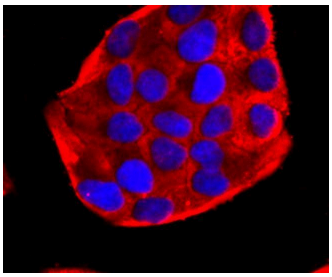


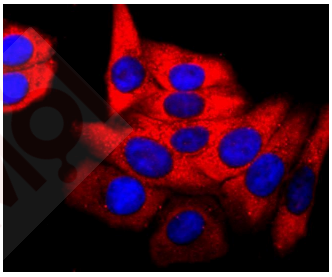


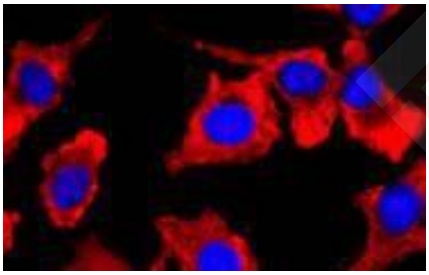


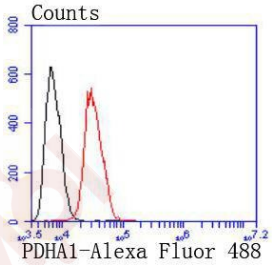












Application:	FCM,ICC/IF,IHC,IP,WB
Recommended	WB: 1:1000-5000; IHC: 1:50-200; ICC/IF: 1:50-200; FCM: 1:50-100

Properties

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

Antigen Details

Immunogen:	Recombinant Protein
Uniprot ID:	P08559

Research 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.

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