Data Sheet (Cat.No.TMAY-02750)

TargetMol

Anti-PDHA1 Antibody (9A259)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	9A259
Purification:	Protein A

Applications

Verified Activity:	Immunofluorescence staining of PDHA1 in HeLa cells. Cells were fixed with 4% PFA, permeabilzed with 0.1% Triton X-100 in PBS,blocked with 10% serum, and incubated with rabbit anti-Human PDHA1 monoclonal antibody (dilution ratio 1:60) at 4°C overnight. Then cells were stained with the Alexa Fluor®488-conjugated Goat Anti-rabbit IgG secondary antibody (green) and counterstained with DAPI (blue).Positive staining was localized to Cytoplasm.
Application:	ICC/IF
Recommended	ICC-IF: 1:20-1:100

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. Preservative-Free.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein: Human PDHA1 Protein
Antigen Species:	Human

Research Background

PDHA1, also known as C54G1, is an alpha subunit of pyruvate dehydrogenase. Pyruvate dehydrogenase, together with dihydrolipoamide acetyltransferase and lipoamide dehydrogenase, composes the pyruvate dehydrogenase (PDH) complex. The 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. PDHA1 plays a key role in the function of the PDH complex. Defects in PDHA1 can cause pyruvate dehydrogenase E1-alpha deficiency. Defects in PDHA1 also are the cause of X-linked Leigh syndrome (X-LS). X-LS is an early-onset progressive neurodegenerative disorder with a characteristic neuropathology consisting of focal, bilateral lesions in one or more areas of the central nervous system, including the brainstem, thalamus, basal ganglia, cerebellum, and spinal cord.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481