

PDHA1 Monoclonal Antibody

Description

Product type Antibody

Code BT-MCA3471

Host Mouse

 Isotype
 Mouse IgG2a

 Size
 100μL, 50μL

Immunogen Purified recombinant fragment of human PDHA1(AA: 241-390) expressed in E. Coli.

Mol wt 43 kDa

Species reactivity Human, Mouse, Rat

Clonality Monoclonal

Recommended application WB,IHC,ICC,FCM

Concentration N/A
Full name N/A

Synonyms PDHA;PDHAD;PHE1A;PDHCE1A

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

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.

Recommended Dilution

WB: 1:500 - 1:2000 IHC-p: 1:200 - 1:1000 ICC: 1:50 - 1:200 FCM: 1:200 - 1:400

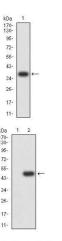
ELISA: 1:10000

Not yet tested in other applications.

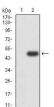
Images



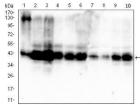
Black line: Control Antigen (100 ng); Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng)



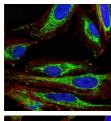
Western blot analysis using PDHA1 mAb against human PDHA1 (AA: 241-390) recombinant protein. (Expected MW is 37.5 kDa)



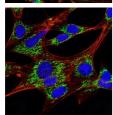
 $We stern \ blot \ analysis \ using \ PDHA1 \ mAb \ against \ HEK293-6e \ (1) \ and \ PDHA1 \ (AA:241-390)-hIgGF c$ transfected HEK293-6e (2) cell lysate.



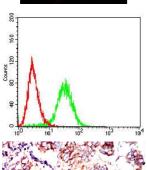
Western blot analysis using PDHA1 mouse mAb against HepG2 (1),Hek293 (2),HL-60 (3),SK-OV-3 (4),PC-3 (5),PANC-1 (6),NRK (7),C2C12 (8), C6 (9), and PC-12 (10) cell lysate.



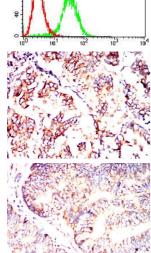
Immunofluorescence analysis of Hela cells using PDHA1 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin. Secondary antibody from Fisher (Cat#: 35503)



Immunofluorescence analysis of NIH/3T3 cells using PDHA1 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin. Secondary antibody from Fisher (Cat#: 35503)

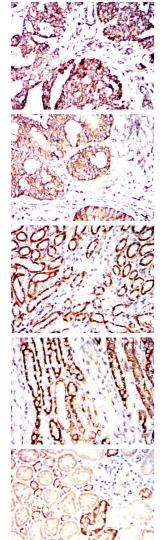


Flow cytometric analysis of Hela cells using PDHA1 mouse mAb (green) and negative control (red).



Immunohistochemical analysis of paraffin-embedded lung cancer tissues using PDHA1 mouse mAb with DAB staining.

Immunohistochemical analysis of paraffin-embedded colon cancer tissues using PDHA1 mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded breast cancer tissues using PDHA1 mouse mAb with DAB staining.

 $Immun ohistochemical \ analysis \ of paraffin-embedded \ rectum \ cancer \ tissues \ using \ PDHA1 \ mouse$ $mAb \ with \ DAB \ staining.$

 $Immunohistochemical\ analysis\ of\ paraffin-embedded\ mouse\ kidney\ tissues\ using\ PDHA1\ mouse$ $mAb\ with\ DAB\ staining.$

Immunohistochemical analysis of paraffin-embedded Rat kidney tissues using PDHA1 mouse mAb with DAB staining.

 $Immun ohistochemical \ analysis \ of paraffin-embedded \ Rabbit \ kidney \ tissues \ using \ PDHA1 \ mouse$ $mAb \ with \ DAB \ staining.$

Storage

Store at 4°C short term. Aliquot and store at -20°C long term.

501 Changsheng S Rd, Nanhu Dist, Jiaxing, Zhejiang, China

Tel: 86 21 31007137 | E-mail: save@bt-laboratory.com | www.bt-laboratory.com