PDHB Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	PDHB, Monoclonal Antibody
Full Product Name	PDHB (Pyruvate Dehydrogenase (lipoamide) beta, DKFZp564K0164, PHE1B) (MaxLight 490)
Product Gene Name	anti-PDHB antibody
Product Synonym Names	Pyruvate Dehydrogenase (lipoamide) beta; DKFZp564K0164; PHE1B
Clonality	Monoclonal
Isotype	IgG2b,k
Clone Number	1D1
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified
Specificity	Recognizes PDHB.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Immunogen	PDHB (AAH00439, 1aa-359aa) full-length recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Conjugate	MaxLight490
Product Categories/Family for anti-PDHB antibody	Antibodies; Enzymes; Dehydrogenase
Applications Tested/Suitable for anti-PDHB antibody	FLISA
Application Notes for anti-PDHB antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-PDHB antibody	MBS6207860 is an antibody targeting PDHB. Also known as PDHB (Pyruvate Dehydrogenase (lipoamide) beta, DKFZp564K0164, PHE1B) (MaxLight 490). Host: Mouse. Mouse monoclonal antibody raised against a full-length recombinant PDHB.
Other Notes	Small volumes of anti-PDHB antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PDHB. It may not necessarily be applicable to this product.

NCBI GI #	12653341
NCBI GeneID	5162
NCBI Accession #	AAH00439
UniProt Related Accession #	P11177

NCBI Official Full Name	Pyruvate dehydrogenase (lipoamide) beta
NCBI Official Synonym Full Names	pyruvate dehydrogenase E1 subunit beta
NCBI Official Symbol	PDHB
NCBI Official Synonym Symbols	PDHBD; PHE1B; PDHE1B; PDHE1-B
Protein Family	Pyruvate dehydrogenase E1 component
NCBI Protein Information	pyruvate dehydrogenase E1 component subunit beta, mitochondrial
NCBI Summary for PDHB	The pyruvate dehydrogenase (PDH) complex is a nuclear-encoded mitochondrial multienzyme complex that catalyzes the overall conversion of pyruvate to acetyl-CoA and carbon dioxide, 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 beta subunit. Mutations in this gene are associated with pyruvate dehydrogenase E1-beta deficiency. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Mar 2012]
Research Articles on PDHB	**1.** Building on evidence that PDH activity depends on the stability of a multi-protein PDH complex, the authors found that the PDH-E1beta subunit of the PDH complex is downregulated to inhibit PDH activity under conditions of prolonged hypoxia which establishs the specific mechanism through which PDH acts as an oncogenic factor by tuning glycolytic metabolism in cancer cells.
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