ALDH1L2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ALDH1L2, Polyclonal Antibody
Full Product Name	ALDH1L2, CT (ALDH1L2, Mitochondrial 10-formyltetrahydrofolate dehydrogenase, Aldehyde dehydrogenase family 1 member L2) (MaxLight 650)
Product Gene Name	anti-ALDH1L2 antibody
Product Synonym Names	ALDH1L2, mitochondrial 10-formyltetrahydrofolate dehydrogenase; Aldehyde dehydrogenase family 1 member L2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
Purity/Purification	Purified by Protein A Affinity Chromatography.
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: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	57,244 Da
OMIM	613584
3D Structure	ModBase 3D Structure for Q3SY69
Immunogen	ALDH1L2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 750-780 amino acids from the C-terminal region of human ALDH1L2.
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-ALDH1L2 antibody	Antibodies; Mitochondrial Proteins
Applications Tested/Suitable for anti-ALDH1L2 antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-ALDH1L2 antibody	IHC: 1:50-100 FLISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-ALDH1L2 antibody	MaxLight650 is a new Far-IR stable dye conjugate comparable to Alexa Fluor647, DyLight649, Cy5 and offers better labeling efficiency, brighter imaging and increased immunodetection. Absorbance (655nm); Emission (676nm); Extinction Coefficient 250,000.
Other Notes	Small volumes of anti-ALDH1L2 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.

Searchable Terms for ALDH1L2 purchase	MBS6272759 is an antibody targeting ALDH1L2. Also known as ALDH1L2, CT (ALDH1L2, Mitochondrial 10-formyltetrahydrofolate dehydrogenase, Aldehyde dehydrogenase family 1 member L2) (MaxLight 650). Reactive in Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ALDH1L2. It may not necessarily be applicable to this product.

NCBI GI #	77681579
NCBI GeneID	160428
NCBI Accession #	NP_001029345.1
UniProt Primary Accession #	Q3SY69
UniProt Secondary Accession #	Q3SY68; Q68D62; Q6AI55; Q8N922
UniProt Related Accession #	Q3SY69
GenBank Nucleotide #	NM_001034173.2
NCBI Official Full Name	aldehyde dehydrogenase 1 family, member L2
NCBI Official Synonym Full Names	aldehyde dehydrogenase 1 family member L2
NCBI Official Symbol	ALDH1L2
NCBI Official Synonym Symbols	mtFDH
UniProt Protein Name	Mitochondrial 10-formyltetrahydrofolate dehydrogenase
UniProt Synonym Protein Names	Aldehyde dehydrogenase family 1 member L2
Protein Family	Mitochondrial 10-formyltetrahydrofolate dehydrogenase
UniProt Gene Name	ALDH1L2
UniProt Synonym Gene Names	Mitochondrial 10-FTHFDH; mtFDH
UniProt Entry Name	AL1L2_HUMAN
NCBI Protein Information	mitochondrial 10-formyltetrahydrofolate dehydrogenase
NCBI Summary for ALDH1L2	This gene encodes a member of both the aldehyde dehydrogenase superfamily and the formyl transferase superfamily. This member is the mitochondrial form of 10-formyltetrahydrofolate dehydrogenase (FDH), which converts 10-formyltetrahydrofolate to tetrahydrofolate and CO2 in an NADP(+)-dependent reaction, and plays an essential role in the distribution of one-carbon groups between the cytosolic and mitochondrial compartments of the cell. Alternatively spliced transcript variants have been found for this gene.[provided by RefSeq, Oct 2010]
UniProt Comments for ALDH1L2	Catalytic activity: 10-formyltetrahydrofolate + NADP+ + H2O = tetrahydrofolate + CO2 + NADPH. Subcellular location: Mitochondrion Ref.5. Tissue specificity: Highly expressed in pancreas, heart, brain and skeletal muscle. Ref.5 Sequence similarities: In the N-terminal section; belongs to the GART family.In the C-terminal section; belongs to the aldehyde dehydrogenase family. ALDH1L subfamily.Contains 1 acyl carrier domain. Sequence caution: The sequence AAI03936.1 differs from that shown. Reason: Erroneous translation. Wrong choice of CDS.
Research Articles on ALDH1L2	**1.** ALDH1L2 has enzymatic properties similar to its cytosolic counterpart

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