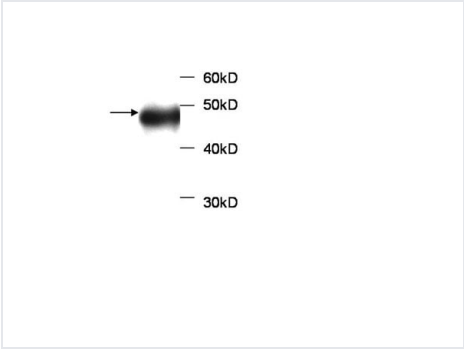
ALDOB Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	ALDOB, Monoclonal Antibody
Full Product Name	Anti-ALDOB Antibody
Product Gene Name	anti-ALDOB antibody
Clonality	Monoclonal
Isotype	IgG1
Host	Mouse
Form/Format	Liquid
Purity/Purification	Affinity purified
Concentration	100ug/100ul (lot specific)
Specificity	Anti-ALDOB recognizes recombinant protein ALDOB.
Preparation and Storage	This product is stable for several weeks at 4 degree C as an undiluted liquid. Dilute only prior to immediate use. For extended storage, aliquot contents and freeze at -20 degree C or below. Avoid cycles of freezing and thawing. Expiration date is one (1) year from date of receipt.
Molecular Weight	39,473 Da
OMIM	229600
Raised In	Purified mouse monoclonal antibody generated using E.coli expressed recombinant protein ALDOB as immunogen.
Storage Buffer	citrate-tris-HCl buffer pH7.0 with 0.02% Proclin 300.
Immunogen	Recombinant protein corresponding to full length ALDOB
Applications Tested/Suitable for anti-ALDOB antibody	ELISA (EIA), Western Blot (WB-Re)
Application Notes for anti-ALDOB antibody	WB: 1:1000 analysis of recombinant protein ALDOB with Anti-ALDOB
Related Product Information for anti-ALDOB antibody	MBS415335 is an antibody targeting ALDOB. Host: Mouse.
Product References and Citations for anti-ALDOB antibody	None
Other Notes	Small volumes of anti-ALDOB 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.



Testing Data of anti-ALDOB antibody

ADDITIONAL DETAILS

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

NCBI GI #	218505812
NCBI GeneID	229
NCBI Accession #	NP_000026.2
UniProt Secondary Accession #	Q13741; Q13742; Q5T7D6
UniProt Related Accession #	P05062
GenBank Nucleotide #	NM_000035
NCBI Official Full Name	Homo sapiens aldolase B, fructose-bisphosphate (ALDOB), mRNA
NCBI Official Synonym Full Names	aldolase B, fructose-bisphosphate
NCBI Official Symbol	ALDOB
NCBI Official Synonym Symbols	ALDB; ALDO2
UniProt Protein Name	Fructose-bisphosphate aldolase B
UniProt Synonym Protein Names	Liver-type aldolase
Protein Family	Fructose-bisphosphate aldolase
UniProt Gene Name	ALDOB
UniProt Entry Name	ALDOB_HUMAN
NCBI Protein Information	fructose-bisphosphate aldolase B; aldolase 2; aldolase B, fructose-bisphosphatase; liver-type aldolase
NCBI Summary for ALDOB	Fructose-1,6-bisphosphate aldolase (EC 4.1.2.13) is a tetrameric glycolytic enzyme that catalyzes the reversible conversion of fructose-1,6-bisphosphate to glyceraldehyde 3-phosphate and dihydroxyacetone phosphate. Vertebrates have 3 aldolase isozymes which are distinguished by their electrophoretic and catalytic properties. Differences indicate that aldolases A, B, and C are distinct proteins, the products of a family of related 'housekeeping' genes exhibiting developmentally regulated expression of the different isozymes. The developing embryo produces aldolase A, which is produced in even greater amounts in adult muscle where it can be as much as 5% of total cellular protein. In adult liver, kidney and intestine, aldolase A expression is repressed and aldolase B is produced. In brain and other nervous tissue, aldolase A and C are expressed about equally. There is a high degree of homology between aldolase A and C. Defects in ALDOB cause hereditary fructose intolerance. [provided by RefSeq, Dec 2008]

UniProt Comments for ALDOB	ALDOB: Defects in ALDOB are the cause of hereditary fructose intolerance (HFI). HFI is an autosomal recessive disease that results in an inability to metabolize fructose and related sugars. Complete exclusion of fructose results in dramatic recovery; however, if not treated properly, HFI subjects suffer episodes of hypoglycemia, general ill condition, and risk of death the remainder of life. Belongs to the class I fructose-bisphosphate aldolase family. Protein type: Carbohydrate Metabolism - pentose phosphate pathway; Carbohydrate Metabolism - glycolysis and gluconeogenesis; Carbohydrate Metabolism - fructose and mannose; EC 4.1.2.13; Lyase Chromosomal Location of Human Ortholog: 9q21.3-q22.2 Cellular Component: microtubule organizing center; cytosol Molecular Function: identical protein binding; protein binding; cytoskeletal protein binding; fructose-bisphosphate aldolase activity; ATPase binding Biological Process: fructose 1,6-bisphosphate metabolic process; NADH oxidation; glycolysis; positive regulation of ATPase activity; carbohydrate metabolic process; glucose metabolic process; pathogenesis; fructose catabolic process; fructose metabolic process; gluconeogenesis Disease: Fructose Intolerance, Hereditary
Research Articles on ALDOB	**1.** Efficient inhibition of aldolase B can prevent high glucose-induced overproduction of methylglyoxal and related cellular dysfunction in endothelial cells.
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