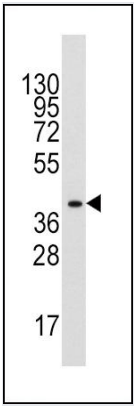
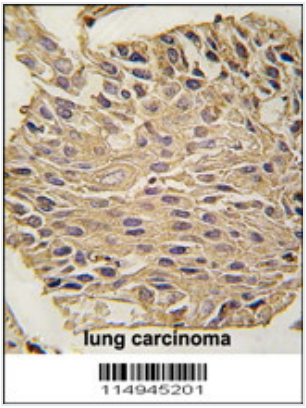
Aldolase (ALDOA) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Aldolase (ALDOA), Polyclonal Antibody
Full Product Name	Aldolase, CT (Fructose-bisphosphate Aldolase A, Muscle-type Aldolase, Lung Cancer Antigen NY-LU-1, ALDOA, ALDA) (FITC)
Product Gene Name	anti-ALDOA antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes human ALDOA.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer.
Molecular Weight	39kDa
OMIM	103850
3D Structure	ModBase 3D Structure for P04075
Immunogen	Synthetic peptide selected from the C-terminal region of human ALDOA (KLH).
Conjugate	FITC
Note	Preservative Free
Product Categories/Family for anti-ALDOA antibody	Antibodies; Enzymes
Applications Tested/Suitable for anti-ALDOA antibody	Immunohistochemistry (IHC), ELISA (EIA), Western Blot (WB)
Application Notes for anti-ALDOA antibody	IHC: 1:10-1:50 ELISA: 1:1,000 WB: 1:50-1:100 Applications are based on unconjugated antibody.
Related Product Information for anti-ALDOA antibody	MBS6462460 is an antibody targeting ALDOA. Also known as Aldolase, CT (Fructose-bisphosphate Aldolase A, Muscle-type Aldolase, Lung Cancer Antigen NY-LU-1, ALDOA, ALDA) (FITC). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-ALDOA antibody	1. Gizak, A., Proteins 72(1), 209-216 (2008). 2. Lu, J., Biochem. Biophys. Res. Commun. 369(3), 948-952 (2008). 3. Valis, K., Mol. Cell. Biochem. 311(1-2), 225-231 (2008).
Other Notes	Small volumes of anti-ALDOA 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.



Western Blot (WB) of anti-ALDOA antibody
Western blot analysis of anti-ALDOA Antibody (C-term) in mouse liver tissue lysates (35ug/lane). ALDOA(arrow) was detected using the purified Pab.



Immunohistochemistry (IHC) of anti-ALDOA antibody
Formalin-fixed and paraffin-embedded human lung carcinoma tissue reacted with ALDOA antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

ADDITIONAL DETAILS

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

NCBI GI #	4557305
NCBI GeneID	226
NCBI Accession #	NP_000025
UniProt Primary Accession #	P04075
UniProt Related Accession #	P04075
GenBank Nucleotide #	NM_000034
NCBI Official Synonym Full Names	aldolase, fructose-bisphosphate A
NCBI Official Symbol	ALDOA
NCBI Official Synonym Symbols	ALDA; GSD12; HEL-S-87p
UniProt Protein Name	Fructose-bisphosphate aldolase A
UniProt Synonym Protein Names	Lung cancer antigen NY-LU-1; Muscle-type aldolase
Protein Family	Fructose-bisphosphate aldolase
UniProt Gene Name	ALDOA
UniProt Synonym Gene Names	ALDA
UniProt Entry Name	ALDOA_HUMAN
NCBI Protein Information	fructose-bisphosphate aldolase A
NCBI Summary for ALDOA	This gene encodes a member of the class I fructose-bisphosphate aldolase protein family. The encoded protein is a glycolytic enzyme that catalyzes the reversible conversion of fructose-1,6-bisphosphate to glyceraldehyde 3-phosphate and dihydroxyacetone phosphate. Three aldolase isozymes (A, B, and C), encoded by three different genes, are differentially expressed during development. Mutations in this gene have been associated with Glycogen Storage Disease XII, an autosomal recessive disorder associated with hemolytic anemia. Disruption of this gene also plays a role in the progression of multiple types of cancers. Related pseudogenes have been identified on chromosomes 3 and 10. [provided by RefSeq, Sep 2017]

UniProt Comments for ALDOA	ALDOA: a glycolytic enzyme that catalyzes D-fructose 1,6-bisphosphate -> glycerone phosphate + D-glyceraldehyde 3-phosphate. Three forms of aldolase are found in vertebrates - aldolase A in muscle, aldolase B in liver and aldolase C in brain. Protein type: Carbohydrate Metabolism - fructose and mannose; Lyase; Carbohydrate Metabolism - pentose phosphate pathway; EC 4.1.2.13; Mitochondrial; Carbohydrate Metabolism - glycolysis and gluconeogenesis Chromosomal Location of Human Ortholog: 16p11.2 Cellular Component: I band; extracellular space; membrane; extracellular region; M band; cytosol; nucleus; actin cytoskeleton Molecular Function: tubulin binding; identical protein binding; protein binding; cytoskeletal protein binding; fructose-bisphosphate aldolase activity; actin binding Biological Process: platelet activation; glycolysis; striated muscle contraction; glucose metabolic process; actin filament organization; pathogenesis; protein homotetramerization; gluconeogenesis; muscle maintenance; regulation of cell shape; fructose 1,6-bisphosphate metabolic process; platelet degranulation; ATP biosynthetic process; carbohydrate metabolic process; blood coagulation; fructose metabolic process Disease: Glycogen Storage Disease Xii
Research Articles on ALDOA	**1.** Our results showed that miR-122 significantly promotes the proliferation and invasion ability of SW480 and SW620 cells through inhibition of Aldolase, Fructose-Bisphosphate A (ALDOA) expression. We further summarized recent advances in our understanding of the functional relevance of microRNAs in cancer development and discussed the possible implications of specific microRNAs in colon cancer
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