Aldolase (ALDOA) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Aldolase (ALDOA), Polyclonal Antibody
Full Product Name	Aldolase (ALDOA) (N-Term) Rabbit pAb
Product Gene Name	anti-ALDOA antibody
Product Synonym Names	Fructose-bisphosphate aldolase A; Lung cancer antigen NY-LU-1; Muscle-type aldolase; ALDOA; ALDA; aldoa
Clonality	Polyclonal
Isotype	Ig
Clone Number	RB14944
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied in PBS with 0.09% (W/V) Sodium Azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Purity/Purification	Affinity Purified
OMIM	103850
3D Structure	ModBase 3D Structure for P04075
Immunogen	This Aldolase (ALDOA) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 66-95 amino acids from the N-terminal region of human Aldolase (ALDOA).
Cellular Localization	Cytoplasm
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ALDOA antibody	Western Blot (WB), Immunocytochemistry (ICC), Immunohistochemistry (IHC)
Application Notes for anti-ALDOA antibody	WB: 1:1000 ICC: 1:10-50 IHC: 1:10-50
Related Product Information for anti-ALDOA antibody	MBS8553852 is an antibody targeting ALDOA. Also known as Aldolase (ALDOA) (N-Term) Rabbit pAb. Reactive in Human. Host: Rabbit.
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.

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_000025.1
UniProt Primary Accession #	P04075

UniProt Related Accession #	P04075
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.** we detected ALDOA somatic promoter mutations in two cases
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