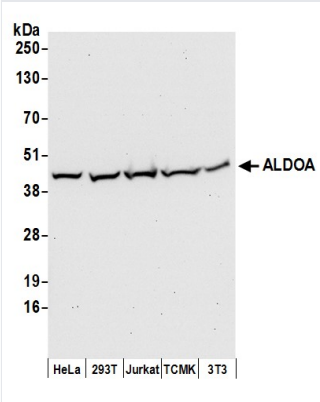
ALDOA Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ALDOA, Polyclonal Antibody
Full Product Name	Rabbit anti-ALDOA Antibody, Affinity Purified
Product Gene Name	anti-ALDOA antibody
Product Synonym Names	GSD12; aldolase A, fructose-bisphosphate; muscle-type aldolase; lung cancer antigen NY-LU-1; HEL-S-87p; ALDA; epididymis secretory sperm binding protein Li 87p; fructose-1,6-bisphosphate triosephosphate-lyase; fructose-bisphosphate aldolase A; Fructose-bisphosphate aldolase A; aldolase, fructose-bisphosphate A
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Liquid. Whole IgG. Tris-citrate/phosphate buffer, pH 7 to 8 containing 0.09% Sodium Azide
Purity/Purification	Antigen Affinity Purified
Concentration	1000ug/ml (lot specific)
Preparation and Storage	Store at 2-8 degree C Shelf Life: 1 year from date of receipt
Molecular Weight	39,420 Da
Chromosome Location	Chromosome: 16; NC_000016.9 (30064411..30081741). Location: 16p11.2
OMIM	103850
3D Structure	ModBase 3D Structure for P04075
Predicted Reactivity	Rat, Rabbit, Orangutan, Chimpanzee
Immunogen	Between 75 and 125
Conjugation	Unconjugated
Product Categories/Family for anti-ALDOA antibody	Primary Antibodies
Applications Tested/Suitable for anti-ALDOA antibody	Western Blot (WB)
Application Notes for anti-ALDOA antibody	WB: 1:2000-1:10,000
Related Product Information for anti-ALDOA antibody	Aldolase A (fructose-bisphosphate aldolase) (ALDOA) 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. Aldolase A is found in the developing embryo and is produced in even greater amounts in adult muscle. Aldolase A expression is repressed in adult liver, kidney and intestine and similar to aldolase C levels in brain and other nervous tissue. Aldolase A deficiency has been associated with myopathy and hemolytic anemia [taken from NCBI Entrez Gene (Gene ID: 226)].
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.

Searchable Terms for ALDOA purchase	MBS3904668 is an antibody targeting ALDOA. Also known as Rabbit anti-ALDOA Antibody, Affinity Purified. Reactive in Human, Mouse. Host: Rabbit.



Western Blot (WB) of anti-ALDOA antibody
Detection of human and mouse ALDOA by western blot. Samples: Whole cell lysate (50 ug) from HeLa, HEK293T, Jurkat, mouse TCMK-1, and mouse NIH 3T3 cells prepared using NETN lysis buffer. Antibodies: Affinity purified rabbit anti-ALDOA antibody MBS3904668 (lot MBS3904668-1) used for WB at 0.1 ug/ml. Detection: Chemiluminescence with an exposure time of 30 seconds.

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 Secondary Accession #	Q6FH76; Q6FI10; Q96B15; Q9BWD9; Q9UCN2; B4DXI7
UniProt Related Accession #	P04075
GenBank Nucleotide #	NM_000034.3
NCBI Official Full Name	fructose-bisphosphate aldolase A isoform 1
NCBI Official Synonym Full Names	aldolase A, fructose-bisphosphate
NCBI Official Symbol	ALDOA
NCBI Official Synonym Symbols	ALDA; GSD12
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; muscle-type aldolase; lung cancer antigen NY-LU-1; fructose-1,6-bisphosphate triosephosphate-lyase

NCBI Summary for ALDOA	The protein encoded by this gene, Aldolase A (fructose-bisphosphate aldolase), 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. Aldolase A is found in the developing embryo and is produced in even greater amounts in adult muscle. Aldolase A expression is repressed in adult liver, kidney and intestine and similar to aldolase C levels in brain and other nervous tissue. Aldolase A deficiency has been associated with myopathy and hemolytic anemia. Alternative splicing and alternative promoter usage results in multiple transcript variants. Related pseudogenes have been identified on chromosomes 3 and 10. [provided by RefSeq, Aug 2011]
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.** The new prognostic biomarkers GRP78, Fructose-bisphosphate Aldolase A (ALDOA), Carbonic Anhydrase I (CA1) and Peptidyl-prolyl cis-trans isomerase A or Cyclophilin A (PPIA)) provided good survival prediction for TNM stage I-IV patients.
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