

**Aldolase (ALDOA) Antibody (N-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP2726a****Specification**

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**Aldolase (ALDOA) Antibody (N-term) Blocking peptide - Product Information**Primary Accession [P04075](#)**Aldolase (ALDOA) Antibody (N-term) Blocking peptide - Additional Information**

Gene ID 226

**Other Names**

Fructose-bisphosphate aldolase A, Lung cancer antigen NY-LU-1, Muscle-type aldolase, ALDOA, ALDA

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP2726a](/products/AP2726a) was selected from the N-term region of human ALDOA. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**Aldolase (ALDOA) Antibody (N-term) Blocking peptide - Protein Information**Name ALDOA ([HGNC:414](#))

Synonyms ALDA

**Function**

Catalyzes the reversible conversion of beta-D-fructose 1,6- bisphosphate (FBP) into two triose phosphate and plays a key role in glycolysis and gluconeogenesis (PubMed:[14766013](http://www.uniprot.org/citations/14766013)). In addition, may also function as scaffolding protein (By similarity).

**Cellular Location**

Cytoplasm, myofibril, sarcomere, I band {ECO:0000250|UniProtKB:P00883}. Cytoplasm, myofibril, sarcomere, M line {ECO:0000250|UniProtKB:P00883}. Note=In skeletal muscle, accumulates around the M line and within the I band, colocalizing with FBP2 on both sides of the Z line in the



absence of Ca(2+) {ECO:0000250|UniProtKB:P00883}

### **Aldolase (ALDOA) Antibody (N-term) Blocking peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

### **Aldolase (ALDOA) Antibody (N-term) Blocking peptide - Images**

### **Aldolase (ALDOA) Antibody (N-term) Blocking peptide - Background**

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.

### **Aldolase (ALDOA) Antibody (N-term) Blocking peptide - References**

Gizak,A., Proteins 72 (1), 209-216 (2008) Lu,J., Biochem. Biophys. Res. Commun. 369 (3), 948-952 (2008) Valis,K., Mol. Cell. Biochem. 311 (1-2), 225-231 (2008)