

# Aldolase (ALDOA) Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AW5238

## Product Information

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<b>Application</b>	IHC-P, WB
<b>Primary Accession</b>	<a href="#">P04075</a>
<b>Other Accession</b>	<a href="#">P05065</a> , <a href="#">P00883</a> , <a href="#">P05064</a>
<b>Reactivity</b>	Human, Mouse, Rat
<b>Predicted</b>	Rabbit
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	39420
<b>Isotype</b>	Rabbit IgG
<b>Antigen Source</b>	HUMAN

## Additional Information

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<b>Gene ID</b>	226
<b>Antigen Region</b>	66-95
<b>Other Names</b>	ALDOA; ALDA; Fructose-bisphosphate aldolase A; Lung cancer antigen NY-LU-1; Muscle-type aldolase
<b>Dilution</b>	IHC-P~~1:100~500 WB~~1:1000
<b>Target/Specificity</b>	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).
<b>Format</b>	Purified polyclonal antibody 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.
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	Aldolase (ALDOA) Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	ALDOA ( <a href="#">HGNC:414</a> )
<b>Synonyms</b>	ALDA

<b>Function</b>	Catalyzes the reversible conversion of beta-D-fructose 1,6- biphosphate (FBP) into two triose phosphate and plays a key role in glycolysis and gluconeogenesis (PubMed: <a href="#">14766013</a> ). In addition, may also function as scaffolding protein (By similarity).
<b>Cellular Location</b>	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}

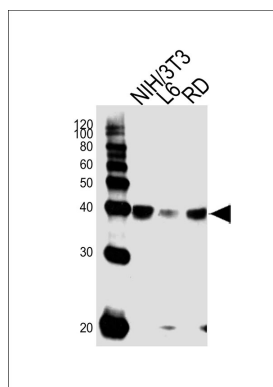
## Background

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.

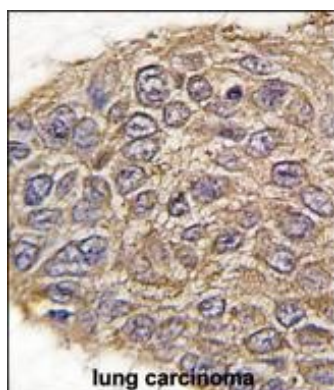
## References

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)

## Images



Western blot analysis of lysates from mouse NIH/3T3, rat L6, RD cell line (from left to right), using ALDOA Antibody (N-term)(Cat. #AW5238). AW5238 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody.



Formalin-fixed and paraffin-embedded human lung carcinoma tissue reacted with ALDOA antibody (N-term) (Cat.#AW5238), 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.