

**Product Name: Aldolase B Rabbit Polyclonal Antibody**  
**Catalog #: APRab06769**



## Summary

<b>Production Name</b>	Aldolase B Rabbit Polyclonal Antibody
<b>Description</b>	Rabbit Polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,IHC-P,IF-P,IF-F,ICC/IF,ELISA
<b>Reactivity</b>	Human,Mouse,Rat

## Performance

<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
<b>Purification</b>	Affinity purification

## Immunogen

<b>Gene Name</b>	ALDOB
<b>Alternative Names</b>	ALDOB; ALDB; Fructose-bisphosphate aldolase B; Liver-type aldolase
<b>Gene ID</b>	229.0
<b>SwissProt ID</b>	P05062.The antiserum was produced against synthesized peptide derived from human ALDOB. AA range:111-160

## Application

<b>Dilution Ratio</b>	WB 1:500-1:2000, IHC-P 1:100-1:300, ELISA 1:20000, IF-P/IF-F/ICC/IF 1:50-200
<b>Molecular Weight</b>	39kDa

## Background

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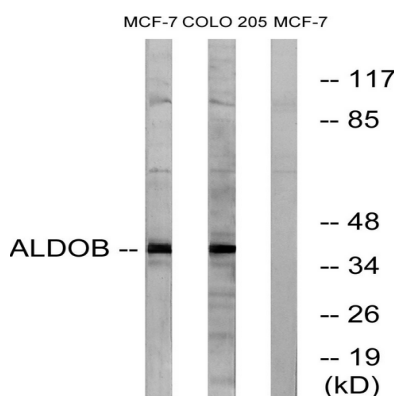


Fructose-1,6-bisphosphate aldolase (EC 4.1.2.13) is a tetrameric glycolytic enzyme that catalyzes the reversible conversion of fructose-1,6-bisphosphate to glyceraldehyde 3-phosphate and dihydroxyacetone phosphate. Vertebrates have 3 aldolase isozymes which are distinguished by their electrophoretic and catalytic properties. Differences indicate that aldolases A, B, and C are distinct proteins, the products of a family of related 'housekeeping' genes exhibiting developmentally regulated expression of the different isozymes. The developing embryo produces aldolase A, which is produced in even greater amounts in adult muscle where it can be as much as 5% of total cellular protein. In adult liver, kidney and intestine, aldolase A expression is repressed and aldolase B is produced. In brain and other nervous tissue, aldolase A and C are expressed about equally. There is a high catalytic activity: D-fructose 1,6-bisphosphate = glyceraldehyde 3-phosphate + D-glyceraldehyde 3-phosphate. Disease: Defects in ALDOB are the cause of hereditary fructose intolerance (HFI) [MIM:229600]. HFI is an autosomal recessive disease that results in an inability to metabolize fructose and related sugars. Complete exclusion of fructose results in dramatic recovery; however, if not treated properly, HFI subjects suffer episodes of hypoglycemia, general ill condition, and risk of death the remainder of life. Miscellaneous: In vertebrates, three forms of this ubiquitous glycolytic enzyme are found, aldolase A in muscle, aldolase B in liver and aldolase C in brain. Pathway: Carbohydrate degradation; glycolysis; D-glyceraldehyde 3-phosphate and glyceraldehyde 3-phosphate from D-glucose: step 4. Pathway: Carbohydrate degradation; glycolysis; D-glyceraldehyde 3-phosphate and glyceraldehyde 3-phosphate from D-glucose: step 4/4. Similarity: Belongs to the class I fructose-bisphosphate aldolase family. Subunit: Homotetramer.

## Research Area

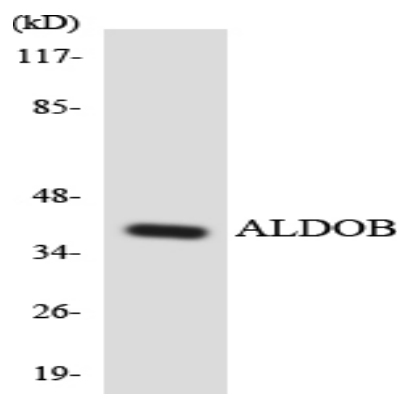
Glycolysis / Gluconeogenesis; Pentose phosphate pathway; Fructose and mannose metabolism;

## Image Data

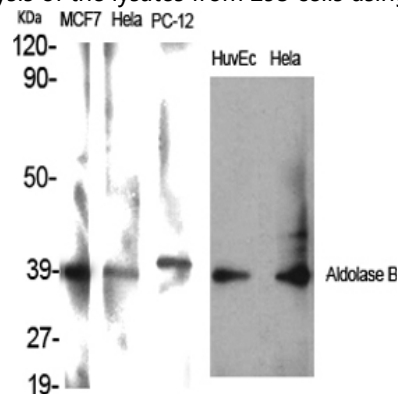


Western blot analysis of lysates from MCF-7 and HUVEC cells, using ALDOB Antibody. The lane on the right is blocked with the synthesized peptide.

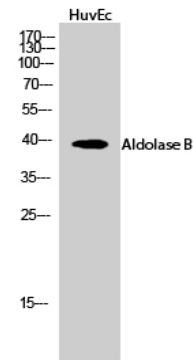
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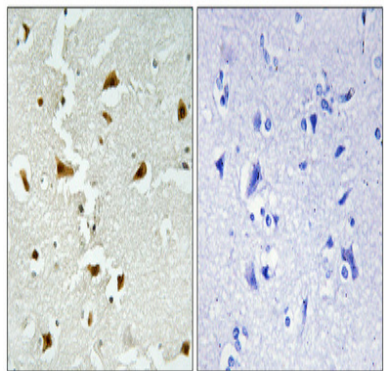
Western blot analysis of the lysates from 293 cells using ALDOB antibody.



Western Blot analysis of various cells using Aldolase B Polyclonal Antibody



Western Blot analysis of HuvEc cells using Aldolase B Polyclonal Antibody



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Immunohistochemical analysis of paraffin-embedded Human brain. Antibody was diluted at 1:100 (4°,overnight) . High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negative contrl (right) obtained from antibody was pre-absorbed by immunogen peptide.

### **Note**

For research use only.