

产品名称: Aldolase B Rabbit Polyclonal Antibody
产品货号: APRab06769



产品概述 (Summary)

产品名称 (Production Name)	Aldolase B Rabbit Polyclonal Antibody
描述 (Description)	Rabbit polyclonal Antibody
宿主 (Host)	Rabbit
应用 (Application)	WB,IHC,ICC/IF,ELISA
种属反应性 (Reactivity)	Human,Mouse,Rat

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Polyclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	ALDOB
别名 (Alternative Names)	ALDOB; ALDB; Fructose-bisphosphate aldolase B; Liver-type aldolase
基因 ID (Gene ID)	229.0
蛋白 ID (SwissProt ID)	P05062.The antiserum was produced against synthesized peptide derived from human ALDOB. AA range:111-160

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:10000-1:20000
蛋白分子量 (Molecular Weight)	39kDa

研究背景 (Background)

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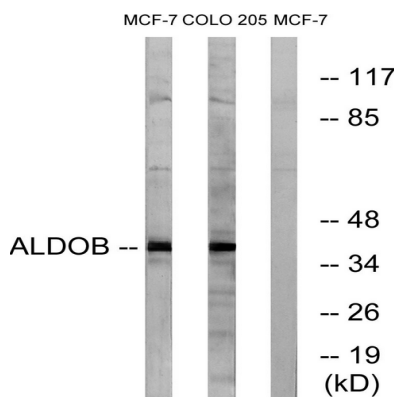


Fructose-1,6-bisphosphate aldolase (EC 4.1.2.13) is a tetrameric glycolytic enzyme that catalyzes the reversible conversion of fructose-1,6-bisphosphate to glyceraldehyde 3-phosphate and dihydroxyacetone phosphate. Vertebrates have 3 aldolase isozymes which are distinguished by their electrophoretic 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.

研究领域 (Research Area)

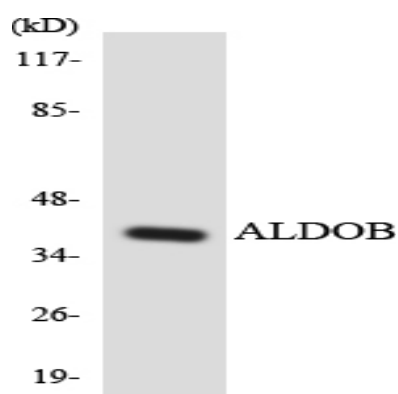
Glycolysis / Gluconeogenesis; Pentose phosphate pathway; Fructose and mannose metabolism;

图片 (Image Data)

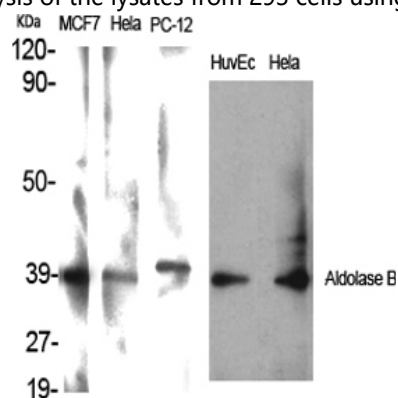


Western blot analysis of lysates from MCF-7 and HUVEC cells, using ALDOB Antibody. The lane on the right is blocked with the synthesized peptide.

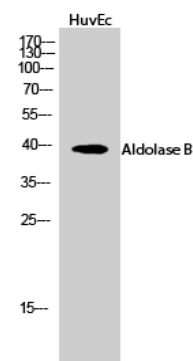
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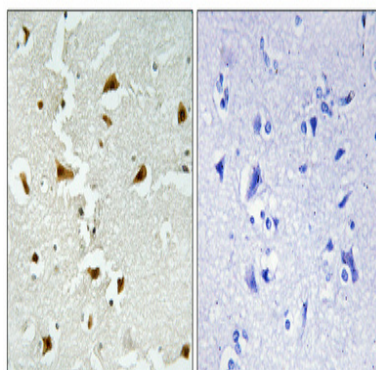
Western blot analysis of the lysates from 293 cells using ALDOB antibody.



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) obtaned from antibody was pre-absorbed by immunogen peptide.

注意事项 (Note)

For research use only .