



Aldolase A Polyclonal Antibody

Catalog No	BYab-02492
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IF;ELISA
Gene Name	ALDOA
Protein Name	Fructose-bisphosphate aldolase A
Immunogen	The antiserum was produced against synthesized peptide derived from human ALDOA. AA range:1-50
Specificity	Aldolase A Polyclonal Antibody detects endogenous levels of Aldolase A protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/10000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	ALDOA; ALDA; Fructose-bisphosphate aldolase A; Lung cancer antigen NY-LU-1; Muscle-type aldolase
Observed Band	39kD
Cell Pathway	Cytoplasm, myofibril, sarcomere, I band . Cytoplasm, myofibril, sarcomere, M line . 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+).
Tissue Specificity	Brain,Cajal-Retzius cell,Cervix,Colon carcinoma,Epithelium,Eye,Feta
Function	catalytic activity:D-fructose 1,6-bisphosphate = glyceraldehyde 3-phosphate + D-glyceraldehyde 3-phosphate.;disease:Defects in ALDOA are the cause of aldolase A deficiency [MIM:611881]; also known as aldoA deficiency or red cell aldolase deficiency. Aldolase A deficiency is an autosomal recessive disorder associated with hereditary hemolytic anemia.;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 4/4.;similarity:Belongs to the class I fructose-bisphosphate

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aldolase family.,subunit:Homotetramer.,

Background

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],

matters needing attention

Avoid repeated freezing and thawing!

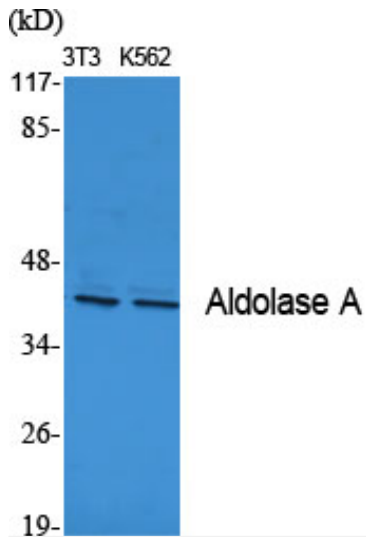
Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

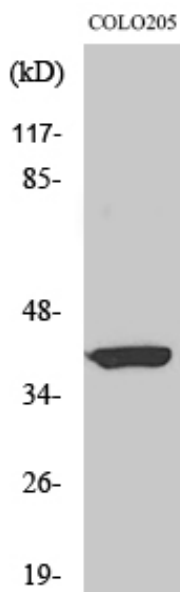
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Products Images



Western Blot analysis of various cells using Aldolase A
Polyclonal Antibody diluted at 1:1000



Western Blot analysis of HT29 cells using Aldolase A
Polyclonal Antibody diluted at 1:1000

