

## Aldolase A Polyclonal Antibody

<b>Catalog No :</b>	YT0191
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	WB;IF;ELISA
<b>Target :</b>	Aldolase A
<b>Fields :</b>	>>Glycolysis / Gluconeogenesis;>>Pentose phosphate pathway;>>Fructose and mannose metabolism;>>Metabolic pathways;>>Carbon metabolism;>>Biosynthesis of amino acids;>>HIF-1 signaling pathway
<b>Gene Name :</b>	ALDOA
<b>Protein Name :</b>	Fructose-bisphosphate aldolase A
<b>Human Gene Id :</b>	226
<b>Human Swiss Prot No :</b>	P04075
<b>Mouse Gene Id :</b>	11674
<b>Mouse Swiss Prot No :</b>	P05064
<b>Rat Gene Id :</b>	24189
<b>Rat Swiss Prot No :</b>	P05065
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human ALDOA. AA range:1-50
<b>Specificity :</b>	Aldolase A Polyclonal Antibody detects endogenous levels of Aldolase A protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500 - 1:2000. IF 1:200 - 1:1000. ELISA: 1:10000. Not yet tested in other

applications.

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**Purification :** The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

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**Concentration :** 1 mg/ml

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**Storage Stability :** -15 °C to -25 °C/1 year(Do not lower than -25 °C)

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**Observed Band :** 39kD

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**Cell Pathway :** Glycolysis / Gluconeogenesis;Pentose phosphate pathway;Fructose and mannose metabolism;

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**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],

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**Function :** catalytic activity:D-fructose 1,6-bisphosphate = glycerone 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 glycerone phosphate from D-glucose: step 4/4.,similarity:Belongs to the class I fructose-bisphosphate aldolase family.,subunit:Homotetramer.,

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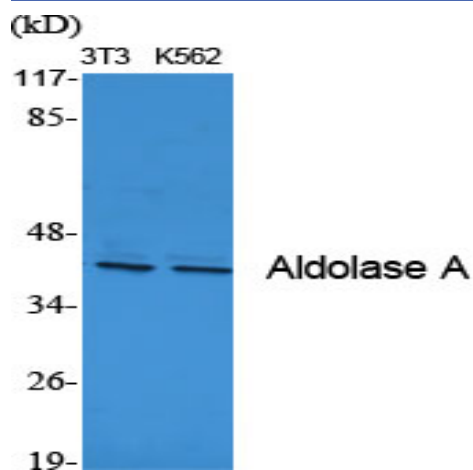
**Subcellular Location :** Cytoplasm, myofibril, sarcomere, I band . Cytoplasm, myofibril, sarcomere, M line . In skeletal muscle, accumulates around the M line and within the I band, colocalizing with FBP2 on both sides of the Z line in the absence of Ca(2+). .

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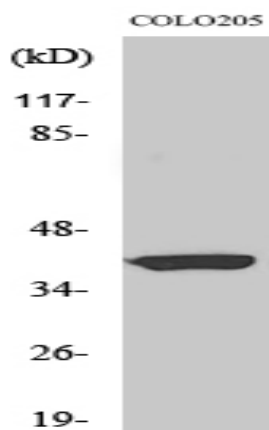
**Expression :** Brain,Cajal-Retzius cell,Cervix,Colon carcinoma,Epithelium,Eye,Feta

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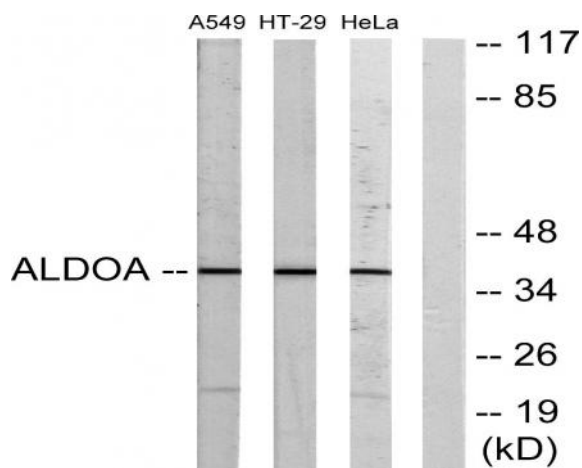
**Products Images**



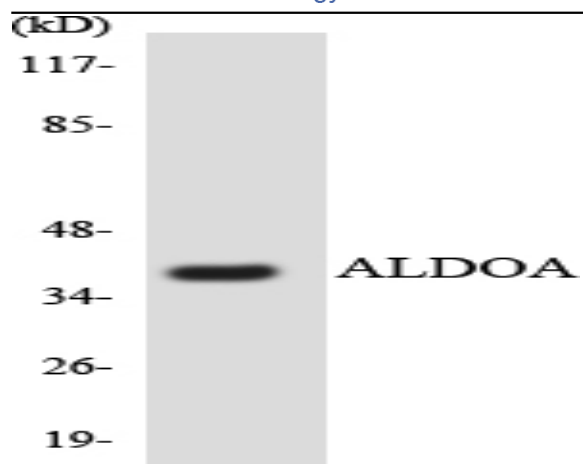
Western Blot analysis of various cells using Aldolase A Polyclonal Antibody diluted at 1:1000



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



Western blot analysis of lysates from A549, HeLa, and HT-29 cells, using ALDOA Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from HT-29 cells using ALDOA antibody.