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# Datasheet

## ALDOA polyclonal antibody

**Catalog Number:** PAB2569

**Regulatory Status:** For research use only (RUO)

**Product Description:** Rabbit polyclonal antibody raised against synthetic peptide of ALDOA.

**Immunogen:** A synthetic peptide (conjugated with KLH) corresponding to C-terminus of human ALDOA.

**Host:** Rabbit

**Reactivity:** Human

**Applications:** IHC-P, WB-Ti
(See our web site product page for detailed applications information)

**Protocols:** See our web site at http://www.abnova.com/support/protocols.asp or product page for detailed protocols

**Form:** Liquid

**Purification:** Ammonium sulfate precipitation

**Recommend Usage:** Western Blot (1:1000)
Immunohistochemistry (1:10-50)
The optimal working dilution should be determined by the end user.

**Storage Buffer:** In PBS (0.09% sodium azide)

**Storage Instruction:** Store at 4°C. For long term storage store at -20°C.
Aliquot to avoid repeated freezing and thawing.

**Entrez GeneID:** 226

**Gene Symbol:** ALDOA

**Gene Alias:** ALDA, MGC10942, MGC17716, MGC17767

**Gene Summary:** This gene product, 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 of this gene results in multiple transcript variants which encode the same protein. [provided by RefSeq]

**References:**

1. Evolutionary conserved N-terminal region of human muscle fructose 1,6-bisphosphatase regulates its activity and the interaction with aldolase. Gizak A, Maciaszczyk E, Dzugaj A, Eschrich K, Rakus D. Proteins. 2008 Jul;72(1):209-16.
2. Involvement of aldolase A in X-ray resistance of human HeLa and UV(r)-1 cells. Lu J, Suzuki T, Satoh M, Chen S, Tomonaga T, Nomura F, Suzuki N. Biochem Biophys Res Commun. 2008 May 9;369(3):948-52. Epub 2008 Mar 5.
3. VDAC2 and aldolase A identified as membrane proteins of K562 cells with increased expression under iron deprivation. Valis K, Neubauerova J, Man P, Pompach P, Vohradsky J, Kovar J. Mol Cell Biochem. 2008 Apr;311(1-2):225-31. Epub 2008 Feb 17.