

Product datasheet for **AM31917PU-N**

Aldolase (ALDOA) Mouse Monoclonal Antibody [Clone ID: 2E6]

Product data:

Product Type:	Primary Antibodies
Clone Name:	2E6
Applications:	ELISA, IHC, WB
Recommended Dilution:	ELISA. Immunohistochemistry on Paraffin Sections: 5 µg/ml. Western Blot: 1/500 - 1/1000.
Reactivity:	Human, Mouse
Host:	Mouse
Clonality:	Monoclonal
Immunogen:	Recombinant protein
Specificity:	This antibody recognizes Human and Mouse ALDOA / Aldolase. Other species not tested.
Formulation:	PBS, pH 7.2 State: Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Protein A Chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	aldolase, fructose-bisphosphate A
Database Link:	Entrez Gene 11674 Mouse Entrez Gene 226 Human P04075



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Background:

Fructose 1,6-bisphosphate aldolase catalyses the reversible condensation of glycerone-P and glyceraldehyde 3-phosphate into fructose 1,6-bisphosphate. Fructose 1,6-bisphosphate aldolase exists as three forms: the muscle-specific Aldolase A, the liver-specific Aldolase B, and the brain-specific Aldolase C. Aldolase A, B and C arose from a common ancestral gene from which Aldolase B first diverged. Aldolase A is one of the most highly-conserved enzymes known, with only about 2% of the residues changing per 100 million years. Aldolase B is regulated by the hormones insulin and glucagon, and has been implicated in hereditary fructose intolerance disease. Aldolase C is a polypeptide that is exclusively expressed in Purkinje cells. Aldolase C-positive Purkinje cells are organized in the cerebellum as stripes or bands that run from anterior to posterior across the cerebellum and alternate with bands of Aldolase C-negative Purkinje cells.

Synonyms:

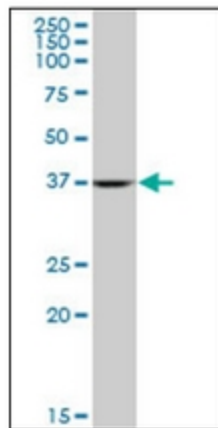
ALDA, NY-LU-1, Muscle-type aldolase

Protein Families:

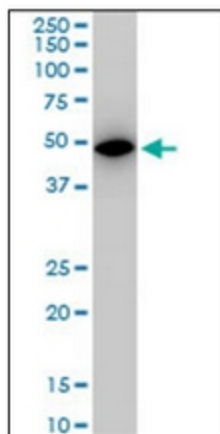
Druggable Genome

Protein Pathways:

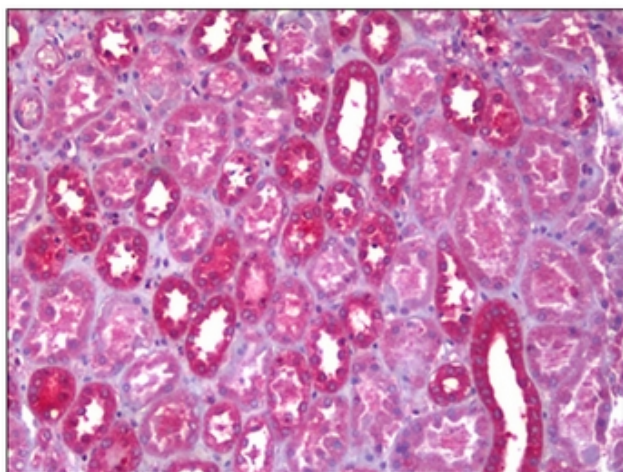
Fructose and mannose metabolism, Glycolysis / Gluconeogenesis, Metabolic pathways, Pentose phosphate pathway

Product images:

Western Blot analysis of ALDOA expression in HepG2 using ALDOA Monoclonal Antibody, Clone 2E6.



Western Blot analysis of ALDOA expression in NIH/3T3 using ALDOA Monoclonal Antibody, Clone 2E6.



Formalin-Fixed, Paraffin-Embedded Human Kidney, Tubules stained with Aldolase A / ALDOA Antibody (Clone 2E6) at 5 ug/ml after heat-induced antigen retrieval.