

Datasheet for ABIN7602563
anti-ALDOB antibody (AA 85-364)



[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	ALDOB
Binding Specificity:	AA 85-364
Reactivity:	Human, Mouse, Rat, Monkey
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ALDOB antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-Aldolase/ALDOB Antibody Picoband®
Immunogen:	E.coli-derived human Aldolase/ALDOB recombinant protein (Position: Y85-Y364).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-Aldolase/ALDOB Antibody Picoband® (ABIN7602563). Tested in ELISA, Flow Cytometry, IF, IHC, ICC, WB applications. This antibody reacts with Human, Monkey, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	ALDOB
Alternative Name:	ALDOB (ALDOB Products)
Background:	Synonyms: Fructose-bisphosphate aldolase B, Liver-type aldolase, ALDOB, ALDB Tissue Specificity: Pancreas-specific (at protein level). Loss of expression is seen in ductal type pancreas cancers. Background: Aldolase B also known as fructose-bisphosphate aldolase B or liver-type aldolase is one of three isoenzymes (A, B, and C) of the class I fructose 1,6-bisphosphate aldolase enzyme (EC 4.1.2.13), and plays a key role in both glycolysis and gluconeogenesis. It is mapped to 9q31.1. 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 degree of homology between aldolase A and C. Defects in ALDOB cause hereditary fructose intolerance.
Molecular Weight:	39 kDa
Gene ID:	229
UniProt:	P05062

Application Details

Application Notes:	Western blot, 0.1-0.25 µg/mL, Human, Mouse, Monkey, Rat Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL, Human, Mouse, Rat Immunocytochemistry/Immunofluorescence, 2 µg/mL, Human Flow Cytometry (Fixed), 1-3 µg/1x10⁶ cells, Human ELISA, 0.1-0.5 µg/mL, - 1. Dalby AR, Tolan DR, Littlechild JA (November 2001). "The structure of human liver fructose-1,6-bisphosphate aldolase". Acta Crystallogr. D. 57 (Pt 11): 1526-33. 2. Henry I, Gallano P, Besmond C, Weil D, Mattei MG, Turleau C, Boué J, Kahn A, Junien C (July 1985). "The structural gene for aldolase B (ALDB) maps to 9q13----32". Ann. Hum. Genet. 49 (Pt 3): 173-80. 3. Sygusch
--------------------	---

Application Details

J, Beaudry D, Allaire M (November 1987). "Molecular architecture of rabbit skeletal muscle aldolase at 2.7-A resolution". Proc. Natl. Acad. Sci. U.S.A. 84 (22): 7846-50.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg Sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C, -20 °C

Storage Comment: Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.