

**Anti-ALDOLASE [Rabbit Muscle] (GOAT) Antibody**  
**Aldolase Antibody**  
**Catalog # ASR4067****Specification****Anti-ALDOLASE [Rabbit Muscle] (GOAT) Antibody - Product Information**

Host	Goat
Conjugate	Unconjugated
Target Species	Rabbit
Reactivity	Human, Rabbit
Clonality	Polyclonal
Application	WB, E, IP, I, LCI
Application Note	Anti-Aldolase Antibody has been tested by ELISA, immunoprecipitation, and western blot. This product is assayed against 1.0 µg of Aldolase [Rabbit Muscle] in a standard ELISA using Peroxidase conjugated Affinity Purified anti-Goat IgG [H&L] (Rabbit) code #605-4302 and (ABTS (2,2'-azino-bis-[3-ethylbenthiazoline-6-sulfonic acid]) code # ABTS-100 as a substrate for 30 minutes at room temperature. A working dilution of 1:10,000 to 1:40,000 is suggested for this product. Use approximately 5 ul of antibody to immunoprecipitate 50 ul of protein lysate.
Physical State	Lyophilized
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Immunogen	Aldolase [Rabbit Muscle]
Reconstitution Volume	100 µL
Reconstitution Buffer	Restore with deionized water (or equivalent)
Preservative	0.01% (w/v) Sodium Azide

**Anti-ALDOLASE [Rabbit Muscle] (GOAT) Antibody - Additional Information****Gene ID** 100009055**Other Names**  
100009055**Purity**

Anti-ALDOLASE was prepared from monospecific antiserum by a delipidation, salt fractionation and ion exchange chromatography. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Goat Serum, purified and partially purified Aldolase [Rabbit Muscle].

**Storage Condition**

Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after

standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

**Precautions Note**

This product is for research use only and is not intended for therapeutic or diagnostic applications.

**Anti-ALDOLASE [Rabbit Muscle] (GOAT) Antibody - Protein Information**

**Name** ALDOA

**Function**

Catalyzes the reversible conversion of beta-D-fructose 1,6- bisphosphate (FBP) into two triose phosphate and plays a key role in glycolysis and gluconeogenesis (PubMed:<a href="http://www.uniprot.org/citations/17329259" target="\_blank">17329259</a>, PubMed:<a href="http://www.uniprot.org/citations/20129922" target="\_blank">20129922</a>). In addition, may also function as scaffolding protein (PubMed:<a href="http://www.uniprot.org/citations/17329259" target="\_blank">17329259</a>).

**Cellular Location**

Cytoplasm, myofibril, sarcomere, I band. Cytoplasm, myofibril, sarcomere, M line. Note=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+)

**Anti-ALDOLASE [Rabbit Muscle] (GOAT) Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Anti-ALDOLASE [Rabbit Muscle] (GOAT) Antibody - Images****Anti-ALDOLASE [Rabbit Muscle] (GOAT) Antibody - Background**

Aldolase plays a key role in glycolysis and gluconeogenesis. In addition, it may also function as scaffolding protein. In vertebrates, three forms of this ubiquitous glycolytic enzyme are found, aldolase A in muscle, aldolase B in the liver, and aldolase C in the brain. Alkylation of Arg-43 inactivates the enzyme. Aldolase is involved in step 4 of the subpathway that synthesizes D-glyceraldehyde 3-phosphate and glycero phosphate from D-glucose.