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Anti-Aldolase ALDOA Antibody

Catalog Number: A05022

About ALDOA

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 glycerone phosphate from D-glucose.

Overview

Product Name	Anti-Aldolase ALDOA Antibody
Reactive Species	Human, Rabbit
Description	Boster Bio Anti-Aldolase ALDOA Antibody (Catalog # A05022). Tested in IP, WB applications. This antibody reacts with Human, Rabbit.
Application	ELISA, IP, WB
Clonality	Polyclonal
Formulation	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2, 0.01% (w/v) Sodium Azide
Storage Instructions	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. Expiration date is one (1) year from date of opening. (Ship at ambient temperature.)
Host	Goat
Uniprot ID	P00883

Technical Details

Immunogen	Aldolase [Rabbit Muscle]
Predicted Reactive Species	Mouse, Rat
Isotype	Antiserum
Form	Lyophilized
Concentration	90 mg/mL by Refractometry
Purification	This product was prepared from monospecific antiserum by a delipidation and defibrination. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-goat serum, purified and partially purified Aldolase [Rabbit Muscle]. This antibody will detect human Aldolase. Cross-reactivity against Aldolase from other tissues and species may also occur. It has been reported that

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	this antibody can detect human Aldolase on immunoblot showing a 41 kDa band in lysates from MCF7, NMB231 and HBL100 cell lines.
Suggested Dilutions	ELISA: 1:5,000 - 1:20,000 IP: 1:100 WB: 1:500 - 1:5,000 Anti-Aldolase has been tested by immunoprecipitation and western blot and is suitable to be 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 1:3,000 to 1:12,000 of the reconstitution concentration is suggested for this product. Use approximately 5 ul of antibody to immunoprecipitate 50 ul of protein lysate.

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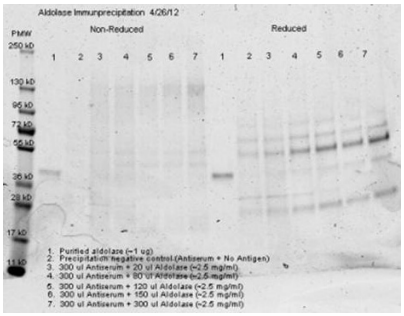
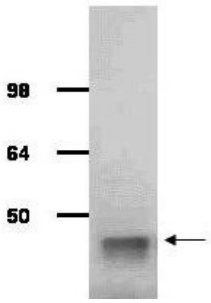
Anti-Aldolase ALDOA Antibody (A05022) Images



Immunoprecipitation of rabbit anti Aldolase antiserum – Immunoprecipitation performed with 300 ul of antiserum and an equal volume of varied amounts of purified aldolase diluted from a stock solution of ~2.5 mg/ml aldolase in PBS. Antibody/Antigen mixture was incubated ~24 hrs at 4°C, centrifuged for 6 minutes at 13K RPM, washed once with PBS, centrifuged and dissolved in 60 ul 0.1 N NaOH. 90 ul of PBS was added, the sample was divided in 2 portions, and an equal volume of reducing (+4% BME) or non-reducing 2X sample buffer was added. The reduced samples were boiled for five minutes, and all samples were run at 140 V for ~45 minutes on a 4-20% tris/glycine gradient gel. Gel was stained, destained and imaged (see attached) using standard protocols. Precipitation of aldolase was confirmed by comparison of increasing amounts of antigen with the control protein by SDS PAGE and observation of a 40-45 kD MW band corresponding to Aldolase. Additional higher and lower molecular weight bands correspond to serum proteins.



IgG purified antibody to rabbit muscle aldolase (100-1141, 200-1141 and 200-1341) was used at a 1:1000 dilution to detect human aldolase by Western blot. A whole cell lysate prepared from human derived A293 cells was loaded on a 4-12% tris glycine gradient gel for SDS-PAGE. The gel was transferred to nitro-cellulose using standard techniques. Antibody reaction with the membrane occurred overnight at 4° C in TTBS supplemented with 2% non-fat dry milk. Color was allowed to develop using SuperSignal West Pico Chemiluminescent Substrate (PIERCE). Other detection methods will yield similar results. This antibody clearly detects a band at ~41 kDa consistent with human aldolase.

Anti-Aldolase ALDOA Antibody

For Research Use Only. Not for use in diagnostic procedures.