abcam

Product datasheet

Anti-Aldolase B antibody [5E2AD2] ab129728

4 Images

Overview

Product name	Anti-Aldolase B antibody [5E2AD2]
Description	Mouse monoclonal [5E2AD2] to Aldolase B
Host species	Mouse
Tested applications	**Suitable for:** IP, ICC/IF, Flow Cyt **Unsuitable for:** WB
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Tissue, cells or virus. This information is considered to be commercially sensitive.
Positive control	Human, Rat and Mouse liver homogenate lysates; HepG2 cells; Hela cells
General notes	This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact **orders@abcam.com**. The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As Product was previously marketed under the MitoSciences sub-brand.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.5 Preservative: 0.02% Sodium azide Constituent: 99% HEPES buffered saline
Purification notes	Purity is near homogeneity as judged by SDS-PAGE. ab129728 was produced in vitro using hybridomas grown in serum-free medium, and then purified by biochemical fractionation.
Clonality	Monoclonal
Clone number	5E2AD2

Isotype	IgG1
Light chain type	kappa

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab129728 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

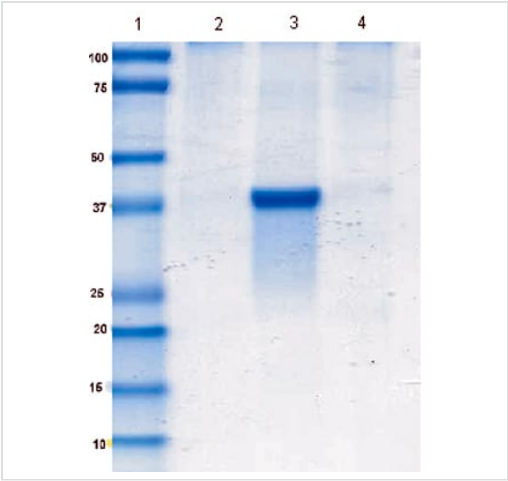
Application	Abreviews	Notes
IP		Use at an assay dependent concentration.
ICC/IF		Use a concentration of 5 µg/ml.
Flow Cyt		Use a concentration of 5 µg/ml. **ab170190** - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

Application notes Is unsuitable for WB.

Target

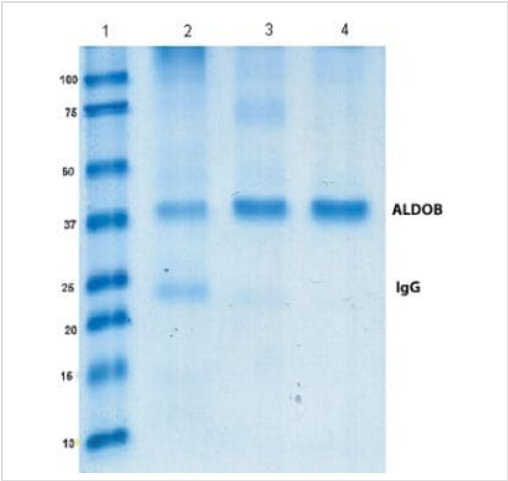
Pathway	Carbohydrate degradation; glycolysis; D-glyceraldehyde 3-phosphate and glycerone phosphate from D-glucose: step 4/4.
Involvement in disease	Defects in ALDOB are the cause of hereditary fructose intolerance (HFI) [MIM:229600]. HFI is an autosomal recessive disease that results in an inability to metabolize fructose and related sugars. Complete exclusion of fructose results in dramatic recovery; however, if not treated properly, HFI subjects suffer episodes of hypoglycemia, general ill condition, and risk of death the remainder of life.
Sequence similarities	Belongs to the class I fructose-bisphosphate aldolase family.

Images



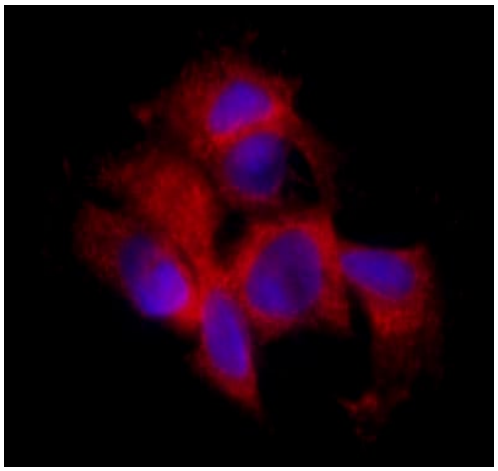
Immunoprecipitation - Anti-Aldolase B antibody [5E2AD2] (ab129728)

Immunoprecipitation image of ab129728. In vertebrates, three forms of this ubiquitous glycolytic enzyme are found, aldolase A in muscle, aldolase B in liver and aldolase C in brain. Antibody ab129728 immunocaptured 39.4 kDa ALDOB only from rat liver homogenate (RLH), not from rat brain homogenate (RBH) nor rat skeletal muscle homogenate (RSMH). Gel stained with Coomassie brilliant blue G. Lane1: ladder Lane2: rat brain homogenate lysate Lane3: rat liver homogenate lysate Lane4: rat skeletal muscle homogenate lysate



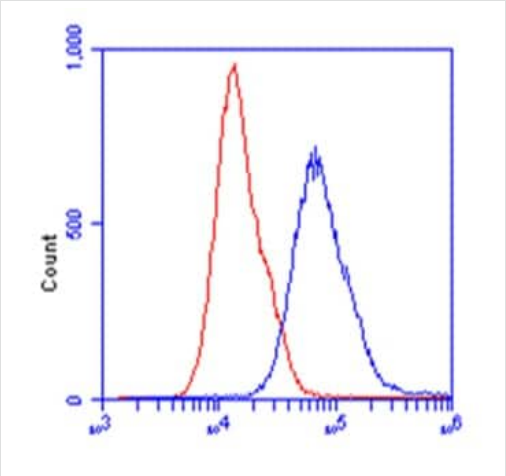
Immunoprecipitation - Anti-Aldolase B antibody [5E2AD2] (ab129728)

Immunoprecipitation image of ab129728. ALDOB antibody immunocaptured 39.4 kDa ALDOB from human liver homogenate (HLH), Rat liver homogenate (RLH) and Mouse liver homogenate (MLH). Gel stained with Coomassie brilliant blue G.
Lane 1: Ladder
Lane 2: Human liver homogenate lysate
Lane 3: Rat liver homogenate lysate
Lane 4: Mouse liver homogenate lysate



Immunocytochemistry/ Immunofluorescence - Anti-Aldolase B antibody [5E2AD2] (ab129728)

Immunocytochemistry image of ab129728 stained HepG2 cells. The cells were paraformaldehyde fixed (4%, 20 min) and Triton X-100 permeabilized (0.1%, 15 min). The cells were incubated with ab129728 at 5 µg/ml for 2h at room temperature or over night at 4°C. The secondary antibody was (red) AlexaFluor® 594 goat anti-mouse IgG (H+L) used at 1/1000 dilution for 1h. 1% BSA was used as the blocking agent for all blocking steps. DAPI was used to stain the cell nuclei (blue). **Antigen retrieval step is recommended for a better signal. The target protein locates to the cytoplasm.**



Flow Cytometry - Anti-Aldolase B antibody [5E2AD2] (ab129728)

Flow cytometry using ab129728. Hela cells were stained with 5 µg/mL ab129728 antibody (blue) or no primary antibody control (red) and analyzed by flow cytometry.

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