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antibody and ELISA experts

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Anti-Aldh5A1 Antibody

Catalog Number: A03802

Introduction

CD3epsilon is a 20kD chain, which together with CD3lambda, CD3delta, and CD3zeta, and a T cell receptor (alpha/beta or gamma/) form the CD3/T-cell receptor complex. It is a specific marker for T lymphocytes, NK T cells, and some thymocytes. Crosslinking of TCR initiates an intracellular signaling cascade resulting in cellular activation and proliferation. The OKT3 antibody has been reported to have potent immunosuppressive properties in vivo and has been proved effective in the treatment of renal, heart, and liver allograft rejection.

This antibody is routinely tested by flow cytometric analysis. Flow cytometry and other applications were tested during antibody development or are reported in the literature.

Application Information

Each lot of this antibody has been quality control tested by flow cytometric analysis of human PBMCs. For flow cytometric staining, the recommended use of this antibody is ≤ 0.5µg per 1x106 cells in 100µl of staining volume followed by a secondary florescent conjugated anti-mouse antibody. However, it is strongly suggested that the antibody reactivity be empirically titrated for optimal performance in the application of interest.

About ALDH5A1

Aldh5A1 is a member of the aldehyde dehydrogenase superfamily, a group of NAD(P)(+)-dependent enzymes that catalyze the oxidation of a wide spectrum of aliphatic and aromatic aldehydes. Aldehyde dehydrogenase enzymes are thought to play a major role in the detoxification of aldehydes generated by alcohol metabolism and lipid peroxidation. Aldh5A1 is a mitochondrial NAD(+)-dependent succinic semialdehyde dehydrogenase. A deficiency of this enzyme, known as 4-hydroxybutyricaciduria, results in a disorder of the neurotransmitter 4-aminobutyric acid (GABA). Symptoms usually include static encephalopathy, associated with developmental delays, hypotonia, ataxia, speech defects, and seizures. At least two isoforms of Aldh5A1 are known to exist.

Overview

Product Name	Anti-Aldh5A1 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Aldh5A1 Antibody (Catalog # A03802). Tested in ELISA, WB applications. This antibody reacts with Human, Mouse, Rat.
Conjugate	Biotin
Application	ELISA, WB
Clonality	Polyclonal SK7
Formulation	Aldh5A1 Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	Aldh5A1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. Avoid

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	repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	P51649

Technical Details

Immunogen	Aldh5A1 antibody was raised against a 22 amino acid synthetic peptide near the carboxy terminus of the human Aldh5A1. The immunogen is located within the last 50 amino acids of Aldh5A1.
Predicted Reactive Species	Bovine, Chicken, Rat
Cross Reactivity	KIR2DS2 antibody is human specific. Multiple isoforms are known to exist.
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	Aldh5A1 Antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Aldh5A1 antibody can be used for detection of Aldh5A1 by Western blot at 0.25 - 0.5 ug/mL. Antibody validated: Western Blot in human samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

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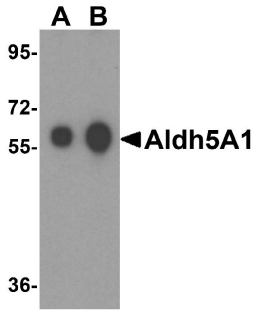
Anti-Aldh5A1 Antibody (A03802) Images



Western blot analysis of Aldh5A1 in human liver tissue lysate with Aldh5A1 antibody at (A) 0.25 and (B) 0.5 ug/mL.

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