

Anti-Fatty aldehyde dehydrogenase Aldh3A2 Antibody

Catalog Number: A05079

About ALDH3A2

Aldh3A2 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. Aldh3A2 catalyzes the oxidation of long-chain aliphatic aldehydes to fatty acids. Mutations in the Aldh3A2 gene cause Sjogren-Larsson syndrome, an inherited neurocutaneous disorder. Patients with this disorder display ichthyosis, mental retardation and spastic diplegia. The pathogenesis of the cutaneous and neurological symptoms is thought to result from abnormal lipid accumulation in the membranes of skin and brain, the formation of aldehyde Schiff base adducts with amine-containing lipids or proteins, or defective eicosanoid metabolism.

Overview

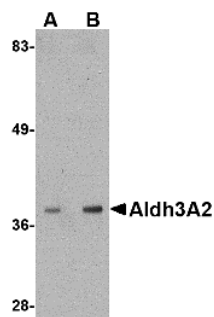
Product Name	Anti-Fatty aldehyde dehydrogenase Aldh3A2 Antibody
Reactive Species	Human, Mouse
Description	Boster Bio Anti-Fatty aldehyde dehydrogenase Aldh3A2 Antibody (Catalog # A05079). Tested in ELISA, WB applications. This antibody reacts with Human, Mouse.
Application	ELISA, WB
Clonality	Polyclonal
Formulation	Aldh3A2 Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	Aldh3A2 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. Avoid repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	P51648

Technical Details

Immunogen	Aldh3A2 antibody was raised against a 14 amino acid synthetic peptide near the carboxy terminus of the human Aldh3A2. The immunogen is located within the last 50 amino acids of Aldh3A2.
Predicted Reactive Species	Rat
Cross Reactivity	At least four isoforms of Aldh3A2 are known to exist. This antibody is predicted to have no cross-reactivity to Aldh3A1.
Isotype	IgG
Form	Liquid

Concentration	1 mg/mL
Purification	Aldh3A2 Antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	Aldh3A2 antibody can be used for detection of Aldh3A2 by Western blot at 1 - 2 ug/mL. Antibody validated: Western Blot in mouse samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

Anti-Fatty aldehyde dehydrogenase Aldh3A2 Antibody (A05079) Images



Western blot analysis of Aldh3A2 in mouse liver lysate with Aldh3A2 antibody at (A) 1 and (B) 2 ug/mL.

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