

Datasheet for ABIN499267

anti-ALDH5A1 antibody (C-Term)[Go to Product page](#)**1** Image

Overview

Quantity:	0.1 mg
Target:	ALDH5A1
Binding Specificity:	C-Term
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ALDH5A1 antibody is un-conjugated
Application:	Western Blotting (WB), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	Aldh5A1 antibody was raised against a 22 amino acid peptide near the carboxy terminus of the human Aldh5A1.
Isotype:	IgG
Specificity:	This antibody reacts to ALDH5A1.
Purification:	Affinity chromatography purified via peptide column

Target Details

Target:	ALDH5A1
Alternative Name:	ALDH5A1 / SSADH (ALDH5A1 Products)
Background:	Aldh5A1 is a member of the aldehyde dehydrogenase superfamily, a group of NAD(P)(+)-

Target Details

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. Synonyms: Aldehyde dehydrogenase family 5 member A1, NAD(+)-dependent succinic semialdehyde dehydrogenase, Succinate-semialdehyde dehydrogenase, mitochondrial

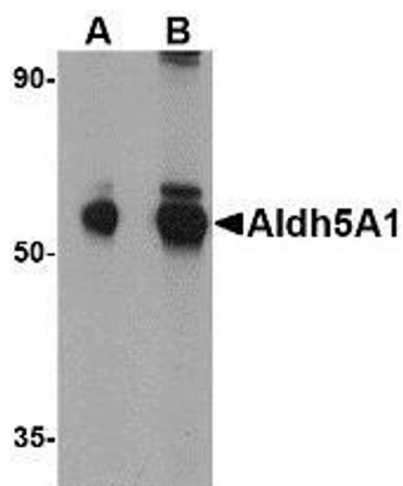
Gene ID:	7915
NCBI Accession:	NP_733936
UniProt:	P51649
Pathways:	Monocarboxylic Acid Catabolic Process

Application Details

Application Notes:	ELISA. Western Blot: Aldh5A1 antibody can be used for detection of Aldh5A1 at 1 - 2 µg/mL. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

Handling

Buffer:	PBS containing 0.02 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store the antibody undiluted at 2-8 °C.



Western Blotting

Image 1. Western blot analysis of Aldh5A1 in mouse liver lysate with AP30045PU-N Aldh5A1 antibody at (A) 1 and (B) 2 µg/ml.