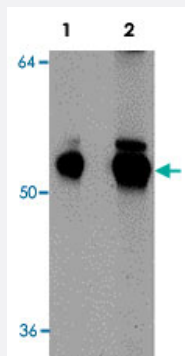


ALDH5A1 polyclonal antibody

Catalog # PAB16551 Size 100 ug

Applications



Western Blot (Tissue lysate)

Western blot analysis of ALDH5A1 in mouse liver lysate with ALDH5A1 polyclonal antibody (Cat # PAB16551) at (Lane 1) 1 and (Lane 2) 2 ug/mL .

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of ALDH5A1.
Immunogen	A synthetic peptide corresponding to C-terminus 22 amino acids of human ALDH5A1.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Form	Liquid
Recommend Usage	Western Blot (1-2 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.02% sodium azide)
Storage Instruction	Store at 4°C for three months. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Tissue lysate)

Western blot analysis of ALDH5A1 in mouse liver lysate with ALDH5A1 polyclonal antibody (Cat # PAB16551) at (Lane 1) 1 and (Lane 2) 2 ug/mL .

- Enzyme-linked Immunoabsorbent Assay

Gene Info — ALDH5A1

Entrez GeneID [7915](#)

Protein Accession# [NP_733936](#)

Gene Name ALDH5A1

Gene Alias SSADH, SSDH

Gene Description aldehyde dehydrogenase 5 family, member A1

Omim ID [271980 610045](#)

Gene Ontology [Hyperlink](#)

Gene Summary This protein belongs to the aldehyde dehydrogenase family of proteins. This gene encodes a mitochondrial NAD(+)-dependent succinic semialdehyde dehydrogenase. A deficiency of this enzyme , known as 4-hydroxybutyricaciduria, is a rare inborn error in the metabolism of the neurotransmitter 4-aminobutyric acid (GABA). In response to the defect, physiologic fluids from patients accumulate GHB, a compound with numerous neuromodulatory properties. Two transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq]

Other Designations NAD(+)-dependent succinic semialdehyde dehydrogenase|OTTHUMP00000016088|aldehyde dehydrogenase 5A1|mitochondrial succinate semialdehyde dehydrogenase|succinate-semialdehyde dehydrogenase

Publication Reference

- [Polymorphisms of human aldehyde dehydrogenases. Consequences for drug metabolism and disease.](#)

Vasiliou V, Pappa A.

Pharmacology 2000 Sep; 61(3):192.

- [Interactions between 4-aminobutyrate aminotransferase and succinic semialdehyde dehydrogenase, two mitochondrial enzymes.](#)

Hearl WG, Churchich JE.

The Journal of Biological Chemistry 1984 Sep; 259(18):11459.

Application: AFC, Enzyme, WB, Purified protein

- [Succinic semialdehyde dehydrogenase deficiency: an inborn error of gamma-aminobutyric acid metabolism.](#)

Gibson KM, Sweetman L, Nyhan WL, Jakobs C, Rating D, Siemes H, Hanefeld F.

Clinica Chimica Acta 1983 Sep; 133(1):33.

Pathway

- [Alanine](#)
- [Butanoate metabolism](#)
- [Metabolic pathways](#)

Disease

- [Cognition](#)
- [Cognition Disorders](#)
- [Epilepsy](#)
- [Genetic Predisposition to Disease](#)
- [Mental Disorders](#)
- [Schizophrenia](#)
- [Seizures](#)
- [Syndrome](#)
- [Tobacco Use Disorder](#)
- [Wechsler Scales](#)