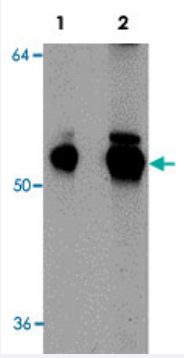
ALDH5A1 polyclonal antibody

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 (0.09% sodium azide)
Storage Instruction	Store at 4°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

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Applications

- Enzyme-linked Immunoabsorbent Assay
- 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 .

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.

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- 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

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