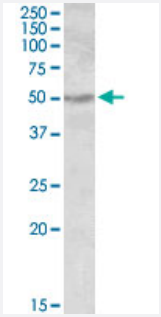
ALDH9A1 polyclonal antibody

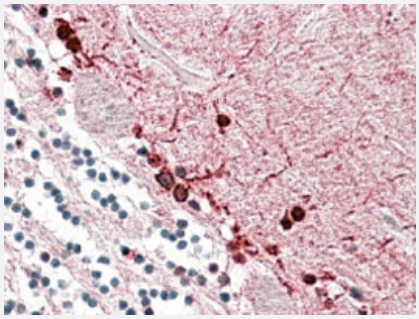
Catalog # PAB18546 Size 100 ug

Applications



Western Blot (Tissue lysate)

ALDH9A1 polyclonal antibody (Cat # PAB18546) (0.3 ug/mL) staining of human kidney lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of human cerebellum with ALDH9A1 polyclonal antibody (Cat # PAB18546) (3.8 ug/mL). Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

Specification

Product Description	Goat polyclonal antibody raised against synthetic peptide of ALDH9A1.
Immunogen	A synthetic peptide corresponding to amino acids at internal region of human ALDH9A1.
Sequence	C-QKEILDKFTEEVVKQ
Host	Goat
Theoretical MW (kDa)	50
Reactivity	Human
Form	Liquid

Purification	Antigen affinity purification
Concentration	0.5 mg/mL
Recommend Usage	Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)(3-5 ug/mL) ELISA (1:16000) Western Blot (0.3-1 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In 0.5 mg/mL Tris saline, pH 7.3 (0.02% sodium azide, 0.5% BSA)
Storage Instruction	Store at -20°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.

Applications

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- Enzyme-linked Immunoabsorbent Assay

Gene Info — ALDH9A1

Entrez GeneID	223
Protein Accession#	NP_000687.3
Gene Name	ALDH9A1
Gene Alias	ALDH4, ALDH7, ALDH9, E3, TMABADH
Gene Description	aldehyde dehydrogenase 9 family, member A1
Omim ID	602733
Gene Ontology	Hyperlink

Gene Summary	This protein belongs to the aldehyde dehydrogenase family of proteins. It has a high activity for oxidation of gamma-aminobutyraldehyde and other amino aldehydes. The enzyme catalyzes the dehydrogenation of gamma-aminobutyraldehyde to gamma-aminobutyric acid (GABA). This isozyme is a tetramer of identical 54-kD subunits. [provided by RefSeq
Other Designations	4-trimethylaminobutyraldehyde dehydrogenase|OTTHUMP00000032604|R-aminobutyraldehyde dehydrogenase|aldehyde dehydrogenase (NAD+)|aldehyde dehydrogenase 9A1|aldehyde dehydrogenase E3 isozyme|gamma-aminobutyraldehyde dehydrogenase

Pathway

- 3-Chloroacrylic acid degradation
- Arginine and proline metabolism
- Ascorbate and aldarate metabolism
- beta-Alanine metabolism
- Butanoate metabolism
- Fatty acid metabolism
- Glycerolipid metabolism
- Glycolysis / Gluconeogenesis
- Histidine metabolism
- Limonene and pinene degradation
- Lysine degradation
- Metabolic pathways
- Propanoate metabolism
- Pyruvate metabolism
- Tryptophan metabolism
- Valine

Disease

- Dyskinesia

- Genetic Predisposition to Disease
- Hypertension
- Osteoporosis
- Schizophrenia
- Tobacco Use Disorder