10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

ALDH8A1 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP1479B

Product Information

Application	WB, E
Primary Accession	Q9H2A2
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB27805
Calculated MW	53401
Antigen Region	386-416

Additional Information

Gene ID	64577
Other Names	Aldehyde dehydrogenase family 8 member A1, 121-, Aldehyde dehydrogenase 12, ALDH8A1, ALDH12
Target/Specificity	This ALDH8A1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 386-416 amino acids from the C-terminal region of human ALDH8A1.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	ALDH8A1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ALDH8A1 (HGNC:15471)
Synonyms	ALDH12
Function	Catalyzes the NAD-dependent oxidation of 2-aminomuconic semialdehyde of the kynurenine metabolic pathway in L-tryptophan degradation.

Cellular Location	Cytoplasm.
Tissue Location	Highly expressed in adult kidney and liver. Detected at lower levels in fetal liver and kidney

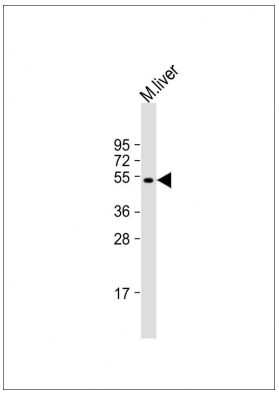
Background

ALDH8A1 belongs to the aldehyde dehydrogenases family of proteins. It plays a role in a pathway of 9-cis-retinoic acid biosynthesis in vivo. This enzyme converts 9-cis-retinal into the retinoid X receptor ligand 9-cis-retinoic acid, and has approximately 40-fold higher activity with 9-cis-retinal than with all-trans-retinal. Therefore, it is the first known aldehyde dehydrogenase to show a preference for 9-cis-retinal relative to all-trans-retinal.

References

Lin,M.,J. Biol. Chem. 275 (51), 40106-40112 (2000)

Images



Anti-ALDH8A1 Antibody (C-term) at 1:2000 dilution + mouse liver lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 53 kDa Blocking/Dilution buffer: 5% NFDM/TBST.