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Datasheet for ABIN1714652
anti-ALDH9A1 antibody (AA 401-494)

Overview

Quantity:	100 µL
Target:	ALDH9A1
Binding Specificity:	AA 401-494
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ALDH9A1 antibody is un-conjugated
Application:	ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunocytochemistry (ICC)

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human ALDH9A1
Isotype:	IgG
Predicted Reactivity:	Human,Mouse,Rat,Dog,Cow,Sheep,Pig,Horse
Purification:	Purified by Protein A.

Target Details

Target:	ALDH9A1
Alternative Name:	ALDH9A1 (ALDH9A1 Products)

Target Details

Background: Synonyms: 4 trimethylaminobutyraldehyde dehydrogenase, 4-trimethylaminobutyraldehyde dehydrogenase, AL9A1_HUMAN, aldehyde dehydrogenase NAD⁺, Aldehyde dehydrogenase 9A1, Aldehyde dehydrogenase E3 isozyme, Aldehyde dehydrogenase family 9 member A1, ALDH4, ALDH7, ALDH9, aldh9A1, E3, Gamma aminobutyraldehyde dehydrogenase, Gamma-aminobutyraldehyde dehydrogenase, R aminobutyraldehyde dehydrogenase, R-aminobutyraldehyde dehydrogenase, TMABADH.

Background: Aldehyde dehydrogenases (ALDHs) mediate the NADP⁺-dependent oxidation of aldehydes into acids and play an important role in the detoxification of alcohol-derived acetaldehyde, as well as in lipid peroxidation and in the metabolism of corticosteroids, biogenic amines and neurotransmitters. ALDH9A1 (aldehyde dehydrogenase family 9 member A1), also known as E3, ALDH4, ALDH7, ALDH9 or TMABADH, is a 494 amino acid cytoplasmic protein that is highly expressed in adult liver, skeletal muscle, kidney and embryonic brain. ALDH9A1 converts gamma-trimethylaminobutyraldehyde into gamma-butyrobetaine and catalyzes the irreversible oxidation of a broad range of aldehydes to the corresponding acids in a NAD-dependent reaction.

Gene ID: 223

Application Details

Application Notes: ELISA 1:500-1000
IHC-P 1:200-400
IHC-F 1:100-500
IF(IHC-P) 1:50-200
IF(IHC-F) 1:50-200
IF(ICC) 1:50-200
ICC 1:100-500

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: 0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be

Handling

handled by trained staff only.

Storage: 4 °C,-20 °C

Storage Comment: Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Expiry Date: 12 months