ARG63143
anti-ALDH1A1 antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes ALDH1A1
Tested Reactivity	Hu, Ms, Rat
Tested Application	WB
Specificity	This antibody may cross-react with ALDH1A2 (GeneID 8854) with one residue difference from this design and with ALDH2 (GeneID 217) with two residues difference from this design.
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	ALDH1A1
Species	Human
Immunogen	C-EVKTVTVKISQKNS
Conjugation	Un-conjugated
Alternate Names	HEL-S-53e; RalDH1; Aldehyde dehydrogenase family 1 member A1; Retinal dehydrogenase 1; HEL-9; RALDH 1; ALDH1; Aldehyde dehydrogenase, cytosolic; ALDH11; EC 1.2.1.36; RALDH1; HEL12; PUMB1; ALHDII; ALDC; ALDH-E1

Application Instructions

Application table

Application	Dilution
WB	0.1 - 0.3 µg/ml

Application Note

WB: Recommend incubate at RT for 1h.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

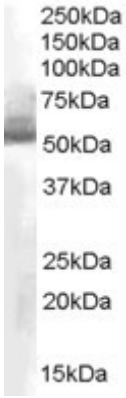
Form	Liquid
Purification	Purified from goat serum by antigen affinity chromatography.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

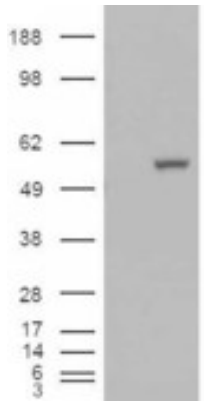
Background	The protein encoded by this gene belongs to the aldehyde dehydrogenase family. Aldehyde dehydrogenase is the next enzyme after alcohol dehydrogenase in the major pathway of alcohol metabolism. There are two major aldehyde dehydrogenase isozymes in the liver, cytosolic and mitochondrial, which are encoded by distinct genes, and can be distinguished by their electrophoretic mobility, kinetic properties, and subcellular localization. This gene encodes the cytosolic isozyme. Studies in mice show that through its role in retinol metabolism, this gene may also be involved in the regulation of the metabolic responses to high-fat diet. [provided by RefSeq, Mar 2011]
Research Area	Cancer antibody; Developmental Biology antibody; Neuroscience antibody
Calculated Mw	55 kDa
PTM	The N-terminus is blocked most probably by acetylation.

Images



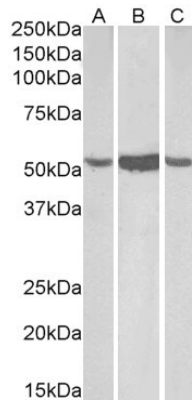
ARG63143 anti-ALDH1A1 antibody WB image

Western Blot: human liver lysate (RIPA buffer, 35 µg total protein per lane) stained with ARG63143 anti-ALDH1A1 antibody at 0.03 µg/ml dilution.



ARG63143 anti-ALDH1A1 antibody WB image

Western Blot: 1). Mock transfection; 2) ALDH1A1 (RC200723) expressing plasmid transfected HEK293 cell lysate standed with ARG63143 anti-ALDH1A1 antibody



ARG63143 anti-ALDH1A1 antibody WB image

Western blot: 35 µg of Human (A), Mouse (B) and Rat (C) liver lysates (in RIPA buffer) stained with ARG63143 anti-ALDH1A1 antibody at 0.1 µg/ml dilution and incubated at RT for 1 hour.