ARG58664
anti-ALDH1A2 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes ALDH1A2
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	ALDH1A2
Species	Human
Immunogen	Recombinant fusion protein corresponding to aa. 1-180 of Human ALDH1A2 (NP_733797.1).
Conjugation	Un-conjugated
Alternate Names	RALDH; RALDH2-T; RalDH2; Retinal dehydrogenase 2; RALDH(II); RALDH 2; RALDH2; EC 1.2.1.36; II; Aldehyde dehydrogenase family 1 member A2; Retinaldehyde-specific dehydrogenase type 2

Application Instructions

Application table

Application	Dilution
ICC/IF	1:50 - 1:200
IHC-P	1:50 - 1:200
WB	1:500 - 1:2000

Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
Positive Control	293T
Observed Size	57 kDa

Properties

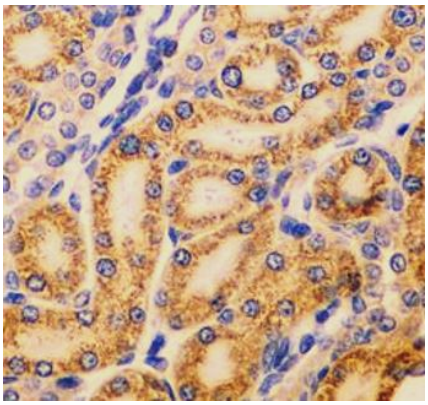
Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. 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

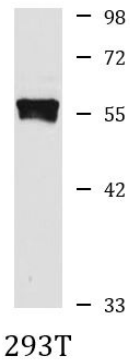
Gene Symbol	ALDH1A2
Gene Full Name	aldehyde dehydrogenase 1 family, member A2
Background	This protein belongs to the aldehyde dehydrogenase family of proteins. The product of this gene is an enzyme that catalyzes the synthesis of retinoic acid (RA) from retinaldehyde. Retinoic acid, the active derivative of vitamin A (retinol), is a hormonal signaling molecule that functions in developing and adult tissues. The studies of a similar mouse gene suggest that this enzyme and the cytochrome CYP26A1, concurrently establish local embryonic retinoic acid levels which facilitate posterior organ development and prevent spina bifida. Four transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, May 2011]
Function	Recognizes as substrates free retinal and cellular retinol-binding protein-bound retinal. Does metabolize octanal and decanal but does not metabolize citral, benzaldehyde, acetaldehyde and propanal efficiently (By similarity). [UniProt]
Calculated Mw	57 kDa
Cellular Localization	Cytoplasm. [UniProt]

Images



ARG58664 anti-ALDH1A2 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat kidney stained with ARG58664 anti-ALDH1A2 antibody at 1:100 dilution.



ARG58664 anti-ALDH1A2 antibody WB image

Western blot: 25 µg of 293T cell lysate stained with ARG58664 anti-ALDH1A2 antibody at 1:1000 dilution.