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

RALDH2 / ALDH1A2 Antibody (aa412-461)

Rabbit Polyclonal Antibody
Catalog # ALS15944

Specification

RALDH2 / ALDH1A2 Antibody (aa412-461) - Product Information

Application	**IHC, WB**
Primary Accession	O94788
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**57kDa KDa**

RALDH2 / ALDH1A2 Antibody (aa412-461) - Additional Information

Gene ID 8854

Other Names
Retinal dehydrogenase 2, RALDH 2, RalDH2, 1.2.1.36, Aldehyde dehydrogenase family 1 member A2, Retinaldehyde-specific dehydrogenase type 2, RALDH(II), ALDH1A2, RALDH2

Target/Specificity
ALDH1A2 Antibody detects endogenous levels of total ALDH1A2 protein.

Reconstitution & Storage
Store at -20°C for up to one year.

Precautions
RALDH2 / ALDH1A2 Antibody (aa412-461) is for research use only and not for use in diagnostic or therapeutic procedures.

RALDH2 / ALDH1A2 Antibody (aa412-461) - Protein Information

Name ALDH1A2

Synonyms RALDH2

Function
Catalyzes the NAD-dependent oxidation of aldehyde substrates, such as all-trans-retinal and all-trans-13,14-dihydroretinal, to their corresponding carboxylic acids, all-trans-retinoate and all-trans- 13,14-dihydroretinoate, respectively (PubMed:29240402, PubMed:33565183). Retinoate signaling is critical for the transcriptional control of many genes, for instance it is crucial for initiation of meiosis in both male and female (PubMed:33565183) (Probable). Recognizes retinal as substrate, both in its free form and when bound to cellular retinol-binding protein (By similarity). Can metabolize octanal and decanal, but has only very low activity with

benzaldehyde, acetaldehyde and propanal (By similarity). Displays complete lack of activity with citral (By similarity).

Cellular Location
Cytoplasm.

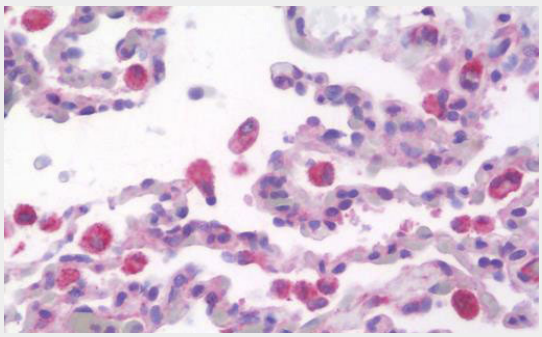
Volume
50 µl

RALDH2 / ALDH1A2 Antibody (aa412-461) - Protocols

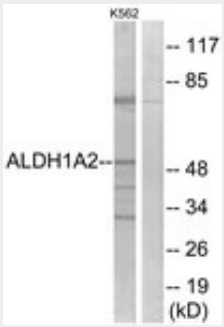
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

RALDH2 / ALDH1A2 Antibody (aa412-461) - Images



Anti-RALDH2 / ALDH1A2 antibody IHC staining of human lung.



Western blot of extracts from K562 cells, using ALDH1A2 Antibody.

RALDH2 / ALDH1A2 Antibody (aa412-461) - Background

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).

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

RALDH2 / ALDH1A2 Antibody (aa412-461) - References

Ono Y.,et al.Mol. Cell. Biol. 18:6939-6950(1998).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Zody M.C.,et al.Nature 440:671-675(2006).
Bechtel S.,et al.BMC Genomics 8:399-399(2007).
Burkard T.R.,et al.BMC Syst. Biol. 5:17-17(2011).