
Product Name: ALDH1A2 Rabbit Polyclonal Antibody**Catalog #: APRab06759**

For research use only.

Summary

Description	Rabbit polyclonal Antibody
Host	Rabbit
Application	WB,IHC,ICC/IF,ELISA
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2000,IHC 1:50-1:300,ICC/IF 1:50-1:200,ELISA 1:10000-1:20000
Molecular Weight	52kDa

Antigen Information

Gene Name	ALDH1A2
Alternative Names	ALDH1A2; RALDH2; Retinal dehydrogenase 2; RALDH 2; RaLDH2; Aldehyde dehydrogenase family 1 member A2; Retinaldehyde-specific dehydrogenase type 2; RALDH(II)
Gene ID	8854.0
SwissProt ID	O94788
Immunogen	The antiserum was produced against synthesized peptide derived from human ALDH1A2. AA range:412-461

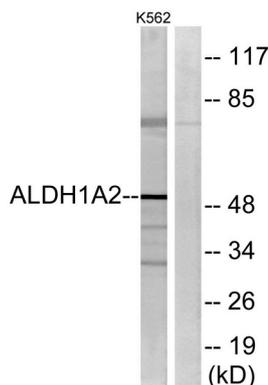
Background

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],catalytic activity:Retinal + NAD(+) + H(2)O = retinoate + NADH.,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.,pathway:Cofactor metabolism; retinol metabolism.,similarity:Belongs to the aldehyde dehydrogenase family.,subunit:Homotetramer.,

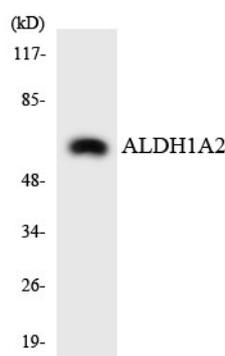
Research Area

Retinol metabolism;

Image Data



Western blot analysis of lysates from K562 cells, using ALDH1A2 Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from COLO205 cells using ALDH1A2 antibody.