

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



## Summary

<b>Production Name</b>	ALDH1A2 Rabbit Polyclonal Antibody
<b>Description</b>	Rabbit Polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,IHC-P,IF-P,IF-F,ICC/IF,ELISA
<b>Reactivity</b>	Human,Mouse,Rat

## Performance

<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
<b>Purification</b>	Affinity purification

## Immunogen

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

## Application

<b>Dilution Ratio</b>	WB 1:500-1:2000.IHC-P 1:50-300, ELISA 1:20000, IF-P/IF-F/ICC/IF 1:50-200
<b>Molecular Weight</b>	52kDa

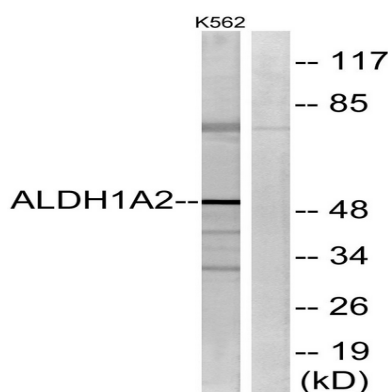
## Background

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<sub>2</sub>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,

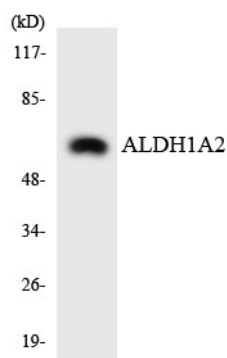
## Research Area

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.

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**Note**

For research use only.