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Datasheet for ABIN7318142  
**ALDH1A2 Protein (His tag)**

### Overview

Quantity:	50 µg
Target:	ALDH1A2
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ALDH1A2 protein is labelled with His tag.

### Product Details

Purpose:	Recombinant Human ALDH1A2 Protein (His Tag)
Sequence:	Met 1-Ser518
Characteristics:	Recombinant Human Aldehyde dehydrogenase family 1 member A2 is produced by our E.coli expression system and the target gene encoding Met1-Ser518 is expressed with a 6His tag at the N-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

### Target Details

Target:	ALDH1A2
Alternative Name:	ALDH1A2 ( <a href="#">ALDH1A2 Products</a> )
Background:	Background: Aldehyde dehydrogenase 1 family member A2 (ALDH1A2), also known as retinaldehyde dehydrogenase 2 (RALDH2), belongs to the aldehyde dehydrogenase family

## Target Details

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which contains two members, the ALDH1 s (ALDH1A1, ALDH1A2 and ALDH1A3) and the 9-cis retinaldehyde dehydrogenase ALDH8 s. ALDH1A2 is key enzyme that catalyzes the synthesis of retinoic acid (RA) from retinaldehyde. RA is a paracrine hormone signaling molecule that functions in developing and adult tissues. ALDH1A2 was also found to regulate normal and tumor cell growth and differentiation. Several studies showed that ALDH1A2 expression is increased after the appearance of AraC resistance in clinical cases which means this protein is effective in AraC resistance.

Synonym: Aldehyde dehydrogenase family 1 member A2, Retinaldehyde-specific dehydrogenase type 2, RALDH(II), Retinal dehydrogenase 2, ALDH1A2, RALDH2

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Molecular Weight: 58.2 kDa

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UniProt: [O94788](#)

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Pathways: [Retinoic Acid Receptor Signaling Pathway](#)

## Application Details

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Restrictions: For Research Use only

## Handling

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Format: Frozen, Liquid

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Buffer: Supplied as a 0.2 µm filtered solution of 20 mM TrisHCl, 150 mM NaCl, pH 7.5, 20 % Glycerol.

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Storage: -20 °C

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Storage Comment: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.