antibodies

# Datasheet for ABIN6239868 ALDH1A1 Protein (AA 2-501) (His tag)





#### Overview

Quantity:	50 µg
Target:	ALDH1A1
Protein Characteristics:	AA 2-501
Origin:	Human
Source:	Escherichia coli (E. coli)
Biological Activity:	Active
Purification tag / Conjugate:	This ALDH1A1 protein is labelled with His tag.
Application:	Activity Assay (AcA), Cell Culture (CC)

#### Product Details

Characteristics:	Tag location: N-terminal His Tag
Purity:	> 95 %
Biological Activity Comment:	ALDH1A1 (Retinal dehydrogenase 1) which belongs to the aldehyde dehydrogenase family, is the next enzyme after alcohol dehydrogenase in the major pathway of alcohol metabolism. ALDH1A1 converts retinaldehyde to retinoic acid. IL21 (interleukin 21) was identified as an interactor of ALDH1A1 through Affinity Capture-MS. Thus a binding ELISA assay was conducted to detect the interaction of recombinant human ALDH1A1 and recombinant human IL21. Briefly, ALDH1A1 were diluted serially in PBS, with 0.01%BSA (pH 7.4). Duplicate samples of 100uL ALDH1A1 were then transferred to IL21-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-ALDH1A1 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were

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### Target Details

Target:	ALDH1A1
Abstract:	ALDH1A1 Products
Background:	Alternative Names: ALDH11, ALDH1, ALDC, PUMB1, RALDH1, Retinaldehyde Dehydrogenase 1, Aldehyde dehydrogenase, cytosolic, Retinal dehydrogenase 1
Molecular Weight:	58kDa
UniProt:	P00352
Pathways:	Dopaminergic Neurogenesis

## Application Details

Application Notes:	Isoelectric Point: 6.3
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Buffer:	20 mM Tris, 150 mM NaCl, pH 8.0, containing 1 mM EDTA, 1 mM DTT, 0.01 % SKL, 5 %
	Trehalose and Proclin300.
Preservative:	Dithiothreitol (DTT), Other preservative, ProClin

Precaution of Use: This product contains ProClin and Dithiothreitol (DTT): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.



Image 1.

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