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


## Overview

| Quantity: | $50 \mu \mathrm{~g}$ |
| :--- | :--- |
| 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 $0.01 \% \mathrm{BSA}(\mathrm{pH} 7.4)$. Duplicate samples |
|  | of 100uL ALDH1A1 were then transferred to IL21-coated microtiter wells and incubated for 2 h |
|  | at $37^{\circ} \mathrm{C}$. Wells were washed with PBST and incubated for 1 h 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 |

incubated $15-25$ minutes at $37^{\circ} \mathrm{C}$. Finally, add $50 \mu \mathrm{~L}$ stop solution to the wells and read at 450 nm immediately. The binding activity of ALDH1A1 and IL21 was shown in Figure 1, and this effect was in a dose dependent manner The binding activity of ALDH1A1 with IL21.

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: | 58 kDa |
| UniProt: | Po0352 |
| Pathways: |  |
| Application Details |  |


| Application Notes: | Isoelectric Point: 6.3 |
| :--- | :--- |
| Restrictions: | For Research Use only |
| Handling | Lyophilized |
| Format: | Trehalose and Proclin300. <br> Buffer: |
| Dithiothreitol (DTT), Other preservative, ProClin 150 mM NaCl, pH 8.0, containing 1 mM EDTA, 1 mM DTT, 0.01 \% SKL, $5 \%$ |  |
| Preservative: | This product contains ProClin and Dithiothreitol (DTT): POISONOUS AND HAZARDOUS |
| Precaution of Use: | SUBSTANCES which should be handled by trained staff only. |

Image 1.

