

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Product datasheet for TA501105S

ALDH3A1 Mouse Monoclonal Antibody [Clone ID: OTI1B6]

Product data:

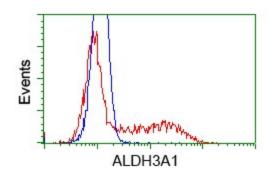
| Product Type: | Primary Antibodies |
|-------------------------|--|
| Clone Name: | OTI1B6 |
| Applications: | FC, IF, IHC, WB |
| Recommended Dilution: | WB 1:2000, IHC 1:50, IF 1:100, Flow 1:100 |
| Reactivity: | Human |
| Host: | Mouse |
| lsotype: | lgG2a |
| Clonality: | Monoclonal |
| Immunogen: | Full length human recombinant protein of human ALDH3A1(NP_000682) produced in HEK293T cell. |
| Formulation: | PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide. |
| Concentration: | 0.93 mg/ml |
| Purification: | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G) |
| Conjugation: | Unconjugated |
| Storage: | Store at -20°C as received. |
| Stability: | Stable for 12 months from date of receipt. |
| Predicted Protein Size: | 50.2 kDa |
| Gene Name: | aldehyde dehydrogenase 3 family member A1 |
| Database Link: | <u>NP_000682</u> <u>Entrez Gene 218 Human</u> <u>P30838</u> |



| | ALDH3A1 Mouse Monoclonal Antibody [Clone ID: OTI1B6] – TA501105S |
|-------------------|--|
| Background: | Aldehyde dehydrogenases oxidize various aldehydes to the corresponding acids. They are involved in the detoxification of alcohol-derived acetaldehyde and in the metabolism of corticosteroids, biogenic amines, neurotransmitters, and lipid peroxidation. The enzyme encoded by this gene forms a cytoplasmic homodimer that preferentially oxidizes aromatic and medium-chain (6 carbons or more) saturated and unsaturated aldehyde substrates. It is thought to promote resistance to UV and 4-hydroxy-2-nonenal-induced oxidative damage in the cornea. The gene is located within the Smith-Magenis syndrome region on chromosome 17. Multiple alternatively spliced variants, encoding the same protein, have been identified. |
| Synonyms: | ALDH3; ALDHIII |
| Protein Families: | Druggable Genome |
| Protein Pathway | s: Drug metabolism - cytochrome P450, Glycolysis / Gluconeogenesis, Histidine metabolism, Metabolic pathways, Metabolism of xenobiotics by cytochrome P450, Phenylalanine metabolism, Tyrosine metabolism |

Product images:

×//___



188 98

62

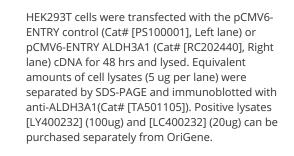
49

38

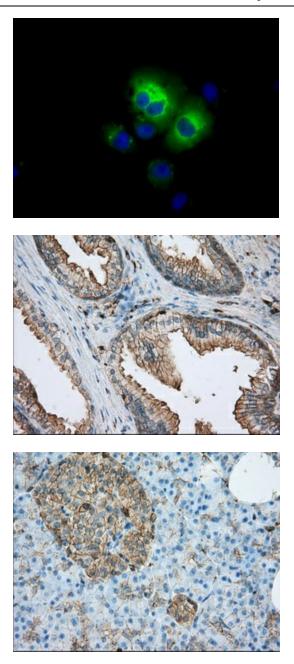
28

17 14 63

HEK293T cells transfected with either pCMV6-ENTRY ALDH3A1 ([RC202440]) (Red) or empty vector control plasmid (Blue) were immunostained with anti-ALDH3A1 mouse monoclonal ([TA501105]), and then analyzed by flow cytometry.



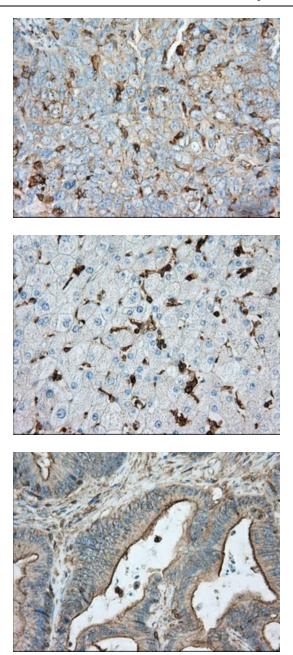




Anti-ALDH3A1 mouse monoclonal antibody ([TA501105]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY ALDH3A1 ([RC202440]).

Immunohistochemical staining of paraffinembedded prostate tissue within the normal limits using anti-ALDH3A1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501105], Dilution 1:50)

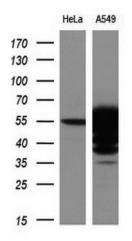
Immunohistochemical staining of paraffinembedded pancreas tissue within the normal limits using anti-ALDH3A1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501105], Dilution 1:50)



Immunohistochemical staining of paraffinembedded Adenocarcinoma of ovary tissue using anti-ALDH3A1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501105], Dilution 1:50)

Immunohistochemical staining of paraffinembedded liver tissue within the normal limits using anti-ALDH3A1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501105], Dilution 1:50)

Immunohistochemical staining of paraffinembedded Adenocarcinoma of colon tissue using anti-ALDH3A1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501105], Dilution 1:50)



Western blot analysis of extracts (10ug) from 2 different cell lines by using anti-ALDH3A1 monoclonal antibody at 1:200 dilution.

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2022 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US