

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 TA501105AM

ALDH3A1 Mouse Monoclonal Antibody (Biotin conjugated) [Clone ID: OTI1B6]

Product data:

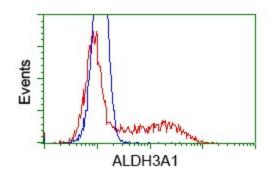
Product Type:	Primary Antibodies
Clone Name:	OTI1B6
Applications:	FC, IF, IHC, WB
Recommended Dilution:	WB 1:2000, IHC 1:50, IF 1:100, Flow 1:100
Reactivity:	Human
Host:	Mouse
lsotype:	lgG2a
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human ALDH3A1(NP_000682) produced in HEK293T cell.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	0.5 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Biotin
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>



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

	ALDH3A1 Mouse Monoclonal Antibody (Biotin conjugated) [Clone ID: OTI1B6] – TA501105AM
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

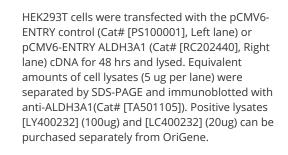
49

38

28

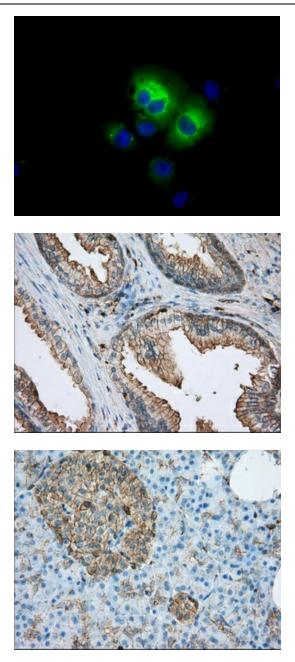
17 14 63

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.



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



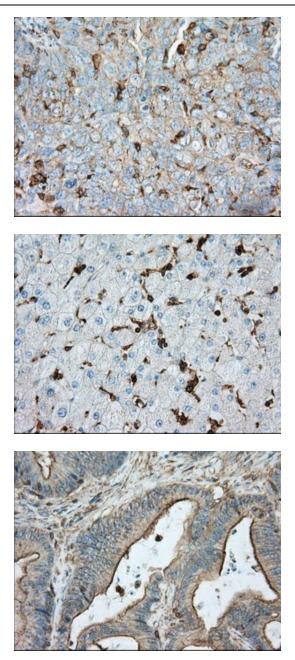


Anti-ALDH3A1 mouse monoclonal antibody ([TA501105]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY ALDH3A1 ([RC202440]).

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)

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

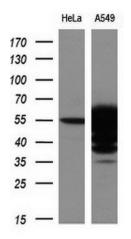


Immunohistochemical staining of paraffinembedded Adenocarcinoma of ovary tissue using anti-ALDH3A1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501105], Dilution 1:50)

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)

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



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