

Product datasheet for TA503256

Aldehyde dehydrogenase 10 (ALDH3A2) Mouse Monoclonal Antibody [Clone ID: OTI2A7]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI2A7
Applications:	FC, IHC, WB
Recommend Dilution:	WB 1:500, IHC 1:150, FLOW 1:100
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human ALDH3A2(NP_001026976) produced in HEK293T cell.
Formulation:	PBS (PH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	0.62 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Predicted Protein Size:	57.5 kDa
Gene Name:	aldehyde dehydrogenase 3 family member A2
Database Link:	NP_001026976 Entrez Gene 224 Human
Background:	Aldehyde dehydrogenase isozymes are thought to play a major role in the detoxification of aldehydes generated by alcohol metabolism and lipid peroxidation. This gene product catalyzes the oxidation of long-chain aliphatic aldehydes to fatty acid. Mutations in the gene cause Sjogren-Larsson syndrome. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]
Synonyms:	ALDH10; FALDH; SLS
Protein Families:	Druggable Genome, Transmembrane

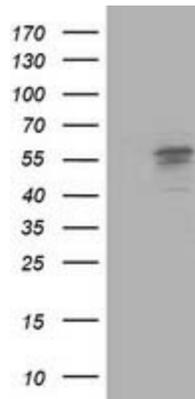


[View online »](#)

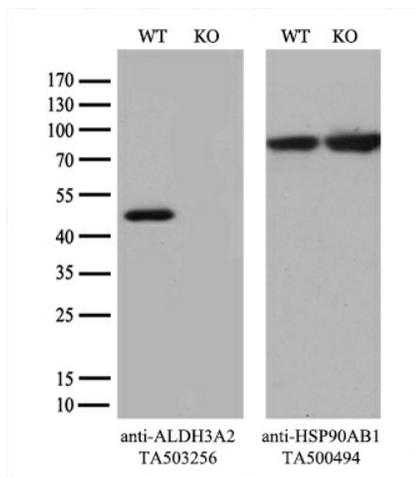
Protein Pathways:

Arginine and proline metabolism, Ascorbate and aldarate metabolism, beta-Alanine metabolism, Butanoate metabolism, Fatty acid metabolism, Glycerolipid metabolism, Glycolysis / Gluconeogenesis, Histidine metabolism, Limonene and pinene degradation, Lysine degradation, Metabolic pathways, Propanoate metabolism, Pyruvate metabolism, Tryptophan metabolism, Valine, leucine and isoleucine degradation

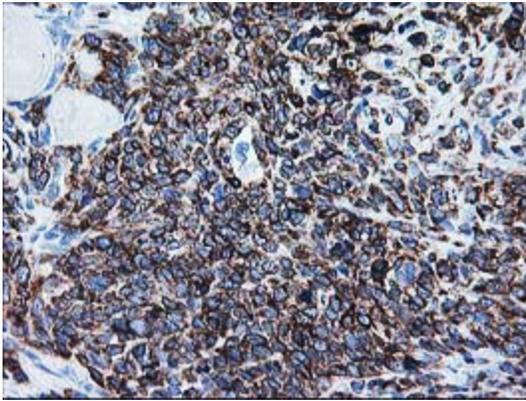
Product images:



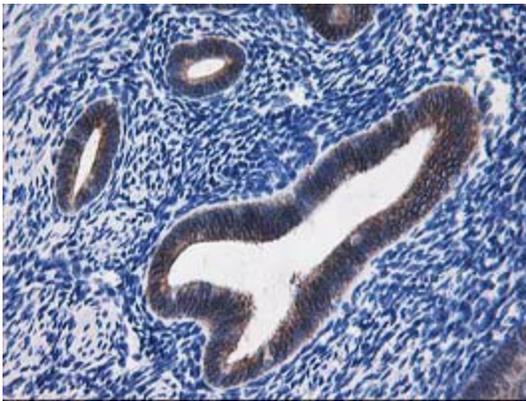
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY ALDH3A2 ([RC200648], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ALDH3A2. Positive lysates [LY422196] (100ug) and [LC422196] (20ug) can be purchased separately from OriGene.



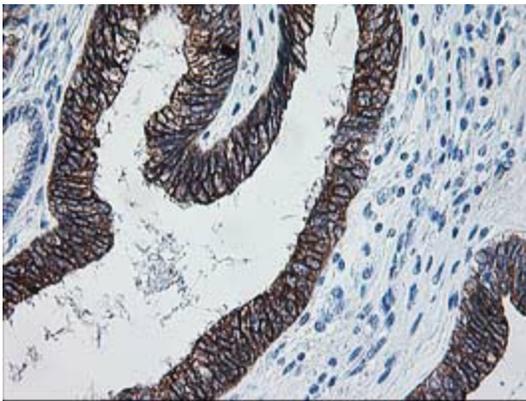
Equivalent amounts of cell lysates (10 ug per lane) of wild-type HeLa cells (WT, Cat# LC810HELA) and ALDH3A2-Knockout HeLa cells (KO, Cat# [LC832790]) were separated by SDS-PAGE and immunoblotted with anti-ALDH3A2 monoclonal antibody TA503256 (1:500^o). Then the blotted membrane was stripped and reprobed with anti-HSP90 antibody as a loading control.



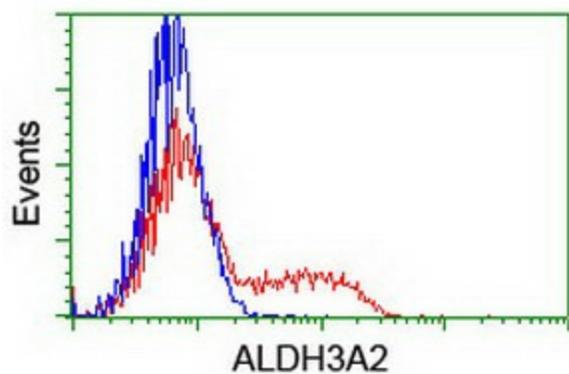
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human breast tissue using anti-ALDH3A2 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA503256)



Immunohistochemical staining of paraffin-embedded Human endometrium tissue within the normal limits using anti-ALDH3A2 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA503256)



Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human endometrium tissue using anti-ALDH3A2 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA503256)



HEK293T cells transfected with either [RC200648] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-ALDH3A2 antibody (TA503256), and then analyzed by flow cytometry.