

Product datasheet for **TA503256M**

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

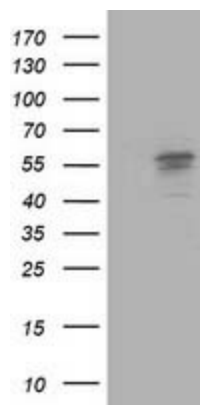
Product data:

| | |
|-------------------------|--|
| Product Type: | Primary Antibodies |
| Clone Name: | OTI2A7 |
| Applications: | FC, IHC, WB |
| Recommended Dilution: | WB 1:500, IHC 1:150, FLOW 1:100 |
| Reactivity: | Human, Rat |
| 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) |
| Conjugation: | Unconjugated |
| Storage: | Store at -20°C as received. |
| Stability: | Stable for 12 months from date of receipt. |
| Predicted Protein Size: | 57.5 kDa |
| Gene Name: | aldehyde dehydrogenase 3 family member A2 |
| Database Link: | NP_001026976 Entrez Gene 65183 Rat Entrez Gene 224 Human P51648 |
| 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] |

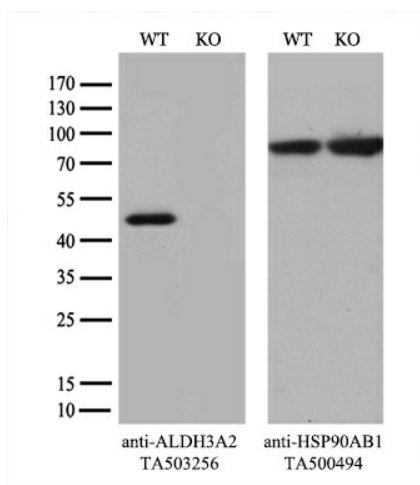

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| | |
|--------------------------|---|
| Synonyms: | ALDH10; FALDH; SLS |
| Protein Families: | Druggable Genome, Transmembrane |
| Protein Pathways: | Arginine and proline metabolism, Ascorbate and aldarate metabolism, beta-Alanine metabolism, Butanoate 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 |

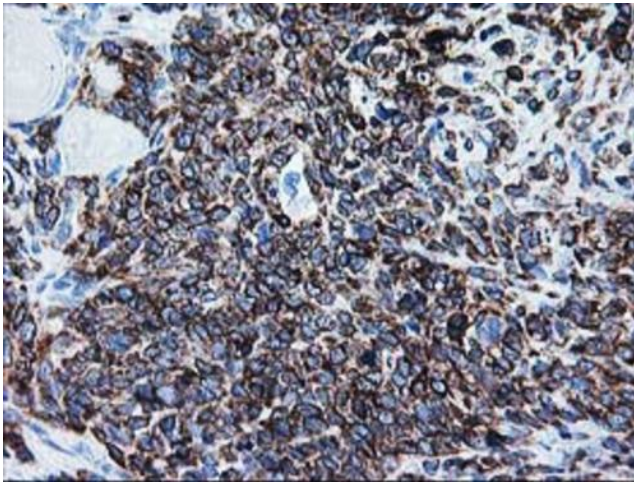
Product images:



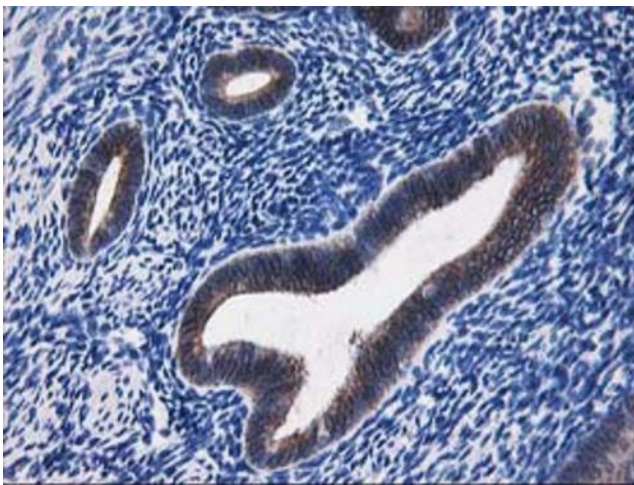
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY ALDH3A2 (Cat# [RC200648], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ALDH3A2 (Cat# [TA503256]). Positive lysates [LY422196] (100ug) and [LC422196] (20ug) can be purchased separately from OriGene.



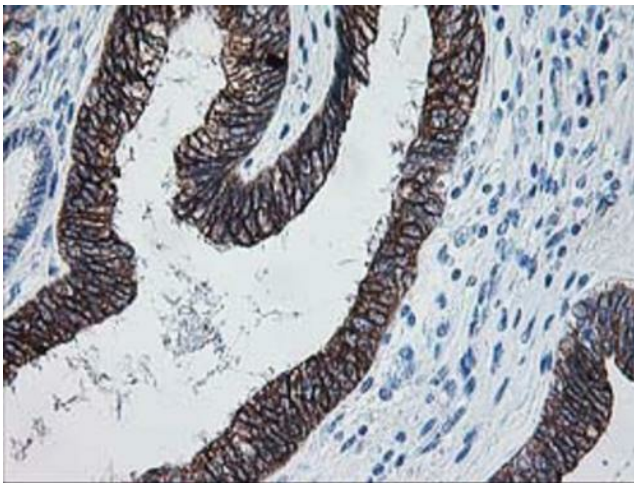
Equivalent amounts of cell lysates (10 ug per lane) of wild-type HeLa cells (WT, Cat# LC810HELA) and ALDH3A2-Knockout HeLa cells (KO, Cat# [LC832790]) were separated by SDS-PAGE and immunoblotted with anti-ALDH3A2 monoclonal antibody [TA503256] (1:500). Then the blotted membrane was stripped and reprobed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



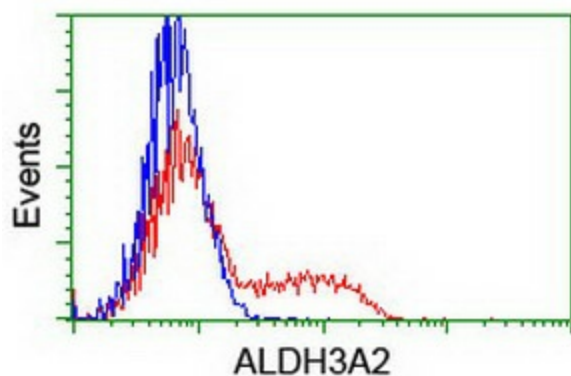
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human breast tissue using anti-ALDH3A2 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffin-embedded Human endometrium tissue within the normal limits using anti-ALDH3A2 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human endometrium tissue using anti-ALDH3A2 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



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.