

## Product datasheet for **CF811150**

### ALDH7A1 Mouse Monoclonal Antibody [Clone ID: OTI10A12]

#### Product data:

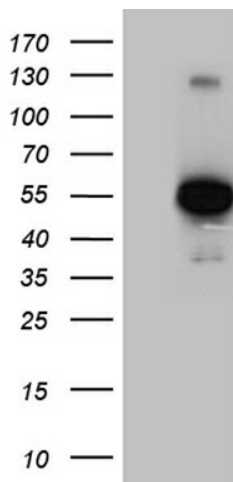
Product Type:	Primary Antibodies
Clone Name:	OTI10A12
Applications:	IHC, WB
Recommended Dilution:	WB 1:500~2000, IHC 1:500
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human ALDH7A1 (NP_001173) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
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:	55.2 kDa
Gene Name:	aldehyde dehydrogenase 7 family member A1
Database Link:	<a href="#">NP_001173</a> <a href="#">Entrez Gene 110695 Mouse</a> <a href="#">Entrez Gene 501 Human</a> <a href="#">P49419</a>
Synonyms:	ATQ1; EPD; PDE
Protein Families:	Druggable Genome



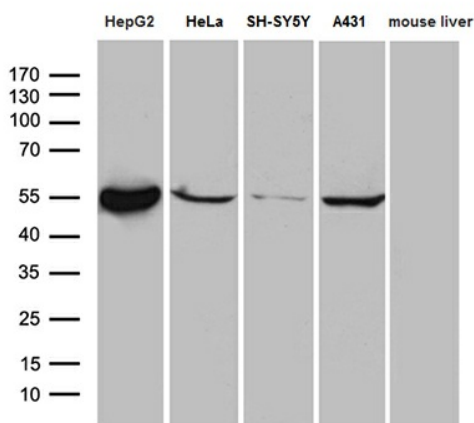
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**Protein Pathways:**

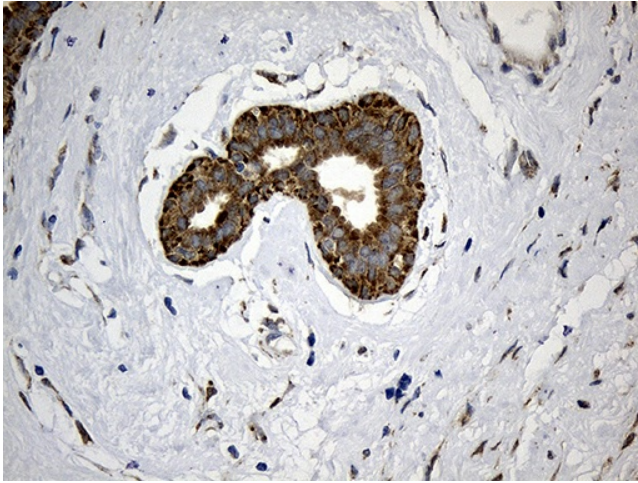
Arginine and proline metabolism, Ascorbate and aldarate metabolism, beta-Alanine metabolism, Butanoate metabolism, Fatty acid metabolism, Glycerolipid metabolism, Glycolysis / Gluconeogenesis, Histidine metabolism, Limonene and pinene degradation, Lysine degradation, Metabolic pathways, Propanoate metabolism,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

**Product images:**


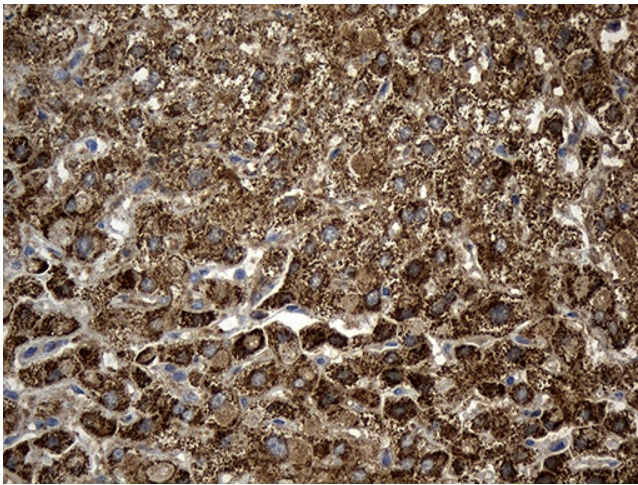
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY ALDH7A1 ([RC209948], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ALDH7A1 (1:2000). Positive lysates [LY432295] (100ug) and [LC432295] (20ug) can be purchased separately from OriGene.



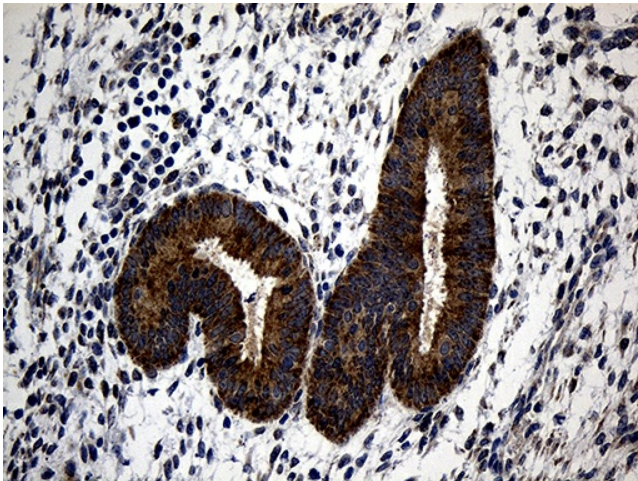
Western blot analysis of extracts (35ug) from 4 different cell lines and mouse liver tissue lysate by using anti-ALDH7A1 monoclonal antibody (1:500).



Immunohistochemical staining of paraffin-embedded Human breast tissue within the normal limits using anti-ALDH7A1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, [TA811150]) (1:500)



Immunohistochemical staining of paraffin-embedded Human liver tissue within the normal limits using anti-ALDH7A1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, [TA811150]) (1:500)



Immunohistochemical staining of paraffin-embedded Human endometrium tissue within the normal limits using anti-ALDH7A1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, [TA811150]) (1:500)