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Product datasheet for CF501855

ALDH1L1 Mouse Monoclonal Antibody [Clone ID: OTI7B7]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI7B7
Applications:	FC, IF, WB
Recommended Dilution:	WB 1:500~2000, IF 1:100, FLOW 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human ALDH1L1 (NP_036322) 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:	98.6 kDa
Gene Name:	aldehyde dehydrogenase 1 family member L1
Database Link:	NP_036322 Entrez Gene 64392 RatEntrez Gene 10840 Human O75891

View online »

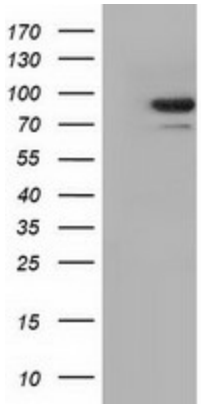
Background: The protein encoded by this gene catalyzes the conversion of 10-formyltetrahydrofolate, NADP, and water to tetrahydrofolate, NADPH, and carbon dioxide. The encoded protein belongs to the aldehyde dehydrogenase family and is responsible for formate oxidation in vivo. Deficiencies in this gene can result in an accumulation of formate and subsequent methanol poisoning. [provided by RefSeq]

Synonyms: 10-fTHF; 10-FTHFDH; FDH; FTHFD

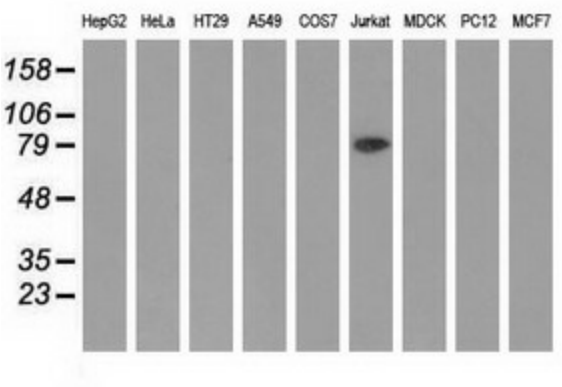
Protein Families: Druggable Genome

Protein Pathways: One carbon pool by folate

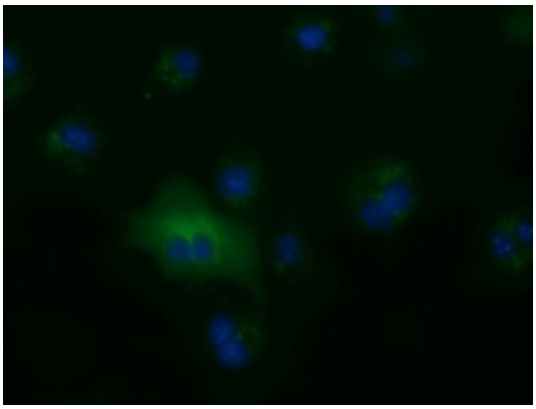
Product images:



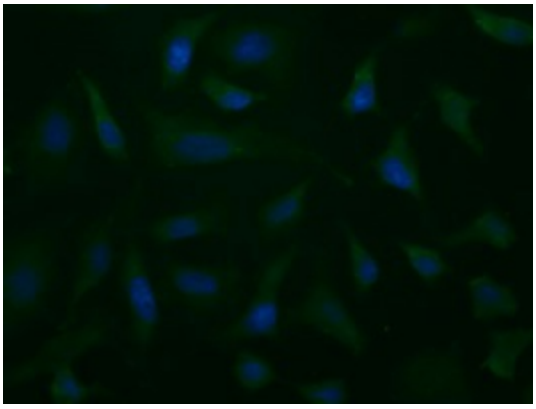
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY ALDH1L1 ([RC213720], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ALDH1L1. Positive lysates [LY415919] (100ug) and [LC415919] (20ug) can be purchased separately from OriGene.



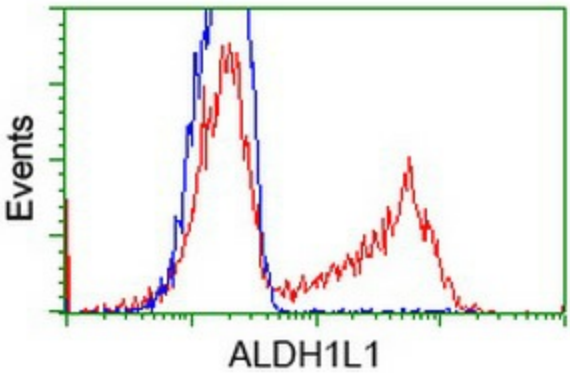
Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-ALDH1L1 monoclonal antibody.



Anti-ALDH1L1 mouse monoclonal antibody ([TA501855]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY ALDH1L1 ([RC213720]).



Immunofluorescent staining of HeLa cells using anti-ALDH1L1 mouse monoclonal antibody ([TA501855]).



HEK293T cells transfected with either [RC213720] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-ALDH1L1 antibody ([TA501855]), and then analyzed by flow cytometry.