

For Research Use Only



CoraLite® Plus 488-conjugated ALDH1B1 Recombinant monoclonal antibody

Catalog Number: **CL488-85426-2**

Basic Information

Catalog Number: CL488-85426-2	GenBank Accession Number: BC001619	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 219	CloneNo.: 242944E7
Source: Rabbit	UNIPROT ID: P30837	Recommended Dilutions: IF/ICC: 1:50-1:500
Isotype: IgG	Full Name: aldehyde dehydrogenase 1 family, member B1	Excitation/Emission maxima wavelengths: 493 nm / 522 nm
Immunogen Catalog Number: AG7144	Calculated MW: 57 kDa	
	Observed MW: 50-55 kDa	

Applications

Tested Applications: IF/ICC	Positive Controls: IF/ICC : HepG2 cells,
Species Specificity: human, mouse, rat	

Background Information

Aldehyde dehydrogenases (ALDHs) belong to a superfamily of NAD(P)⁺-dependent enzymes, which catalyze the oxidation of endogenous and exogenous aldehydes to their corresponding acids. ALDH1B1 is a mitochondrial ALDH that it is dramatically upregulated in human colonic adenocarcinoma, making it a potential biomarker for human colon cancer.(PMID:21216231). ALDH1B1 is a homotetramer expressed in various adult and fetal human tissues including liver, testis, kidney, skeletal muscle, heart, placenta, brain and lung(PMID:18611112).

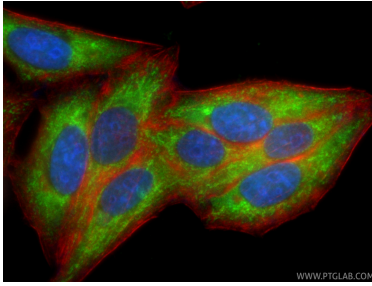
Storage

Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using CoraLite® Plus 488 ALDH1B1 antibody (CL488-85426-2, Clone: 242944E7) at dilution of 1:200, CL594-phalloidin (red).