

For Research Use Only

Methylmalonyl Coenzyme A mutase/MUT Recombinant antibody

Catalog Number: 84879-6-RR



Basic Information

Catalog Number: 84879-6-RR	GenBank Accession Number: BC016282	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 4594	CloneNo.: 242198A3
Source: Rabbit	UNIPROT ID: P22033	Recommended Dilutions: IHC: 1:250-1:1000 IF/ICC: 1:250-1:1000 FC (Intra): 0.25 ug per 10 ⁶ cells in a 100 µl suspension
Isotype: IgG	Full Name: methylmalonyl Coenzyme A mutase	
Immunogen Catalog Number: AG10523	Calculated MW: 750 aa, 83 kDa	
	Observed MW: 78 kDa	

Applications

Tested Applications: IHC, IF/ICC, FC (Intra), ELISA	Positive Controls: IHC : Human Hepatocellular cancer, IF/ICC : HepG2 cells, FC (Intra) : A431 cells, HepG2 cells
Species Specificity: human	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

Methylmalonyl Coenzyme A mutase (MUT) is an enzyme that plays a crucial role in the metabolism of certain amino acids and fatty acids. Mutations in the MUT gene can lead to methylmalonic acidemia, a metabolic disorder characterized by the accumulation of toxic compounds such as methylmalonyl-CoA and propionyl-CoA. This condition can cause severe health issues including developmental delays, metabolic acidosis, and neurological problems. MUT is essential for maintaining normal metabolic processes and its dysfunction can have significant health implications, highlighting its importance in both basic metabolism and clinical medicine.

Storage

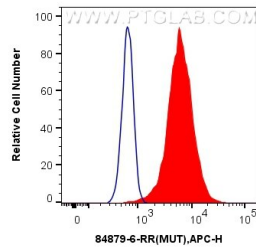
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

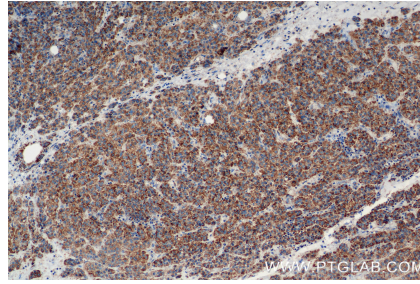
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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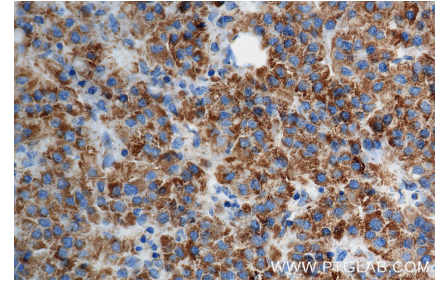
Selected Validation Data



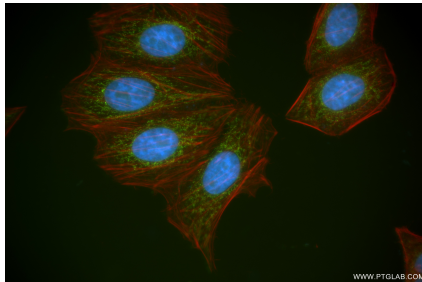
1x10⁶ A431 cells were intracellularly stained with 0.25 ug Methylmalonyl Coenzyme A mutase/MUT Recombinant Antibody (84879-6-RR, Clone:242198A3) and APC-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunohistochemical analysis of paraffin-embedded Human Hepatocellular cancer slide using 84879-6-RR (Methylmalonyl Coenzyme A mutase/MUT antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded Human Hepatocellular cancer slide using 84879-6-RR (Methylmalonyl Coenzyme A mutase/MUT antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using Methylmalonyl Coenzyme A mutase/MUT antibody (84879-6-RR, Clone: 242198A3) at dilution of 1:500 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).