

For Research Use Only

# Methylmalonyl Coenzyme A mutase/MUT Recombinant antibody, PBS Only

Catalog Number: 84879-6-PBS



## Basic Information

<b>Catalog Number:</b> 84879-6-PBS	<b>GenBank Accession Number:</b> BC016282	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug , Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 4594	<b>CloneNo.:</b> 242198A3
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P22033	
<b>Isotype:</b> IgG	<b>Full Name:</b> methylmalonyl Coenzyme A mutase	
<b>Immunogen Catalog Number:</b> AG10523	<b>Calculated MW:</b> 750 aa, 83 kDa	
	<b>Observed MW:</b> 78 kDa	

## Applications

**Tested Applications:**  
IHC, IF/ICC, FC (Intra), Indirect ELISA

**Species Specificity:**  
human

## 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

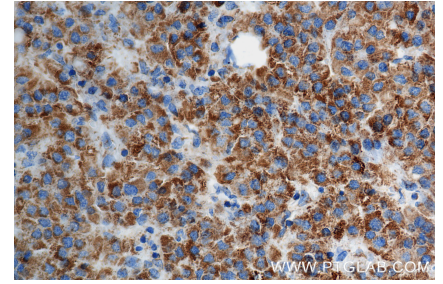
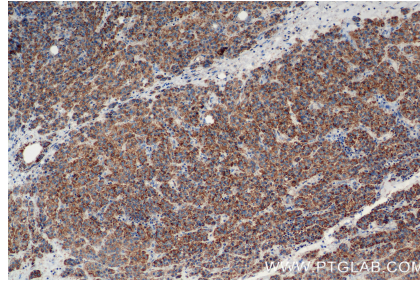
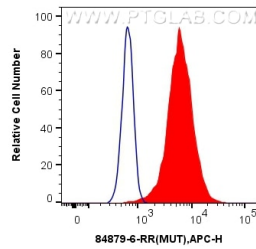
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS only, pH7.3

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](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

## Selected Validation Data

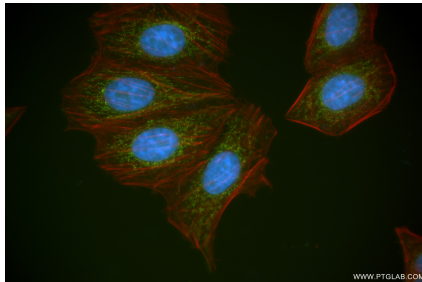


1x10<sup>6</sup> A431 cells were intracellularly stained with 0.25 ug Methylmalonyl Coenzyme A mutase/MUT Recombinant Antibody (84879-6-RR, Clone:242198A3) and APC-Conjugated Goat Anti-Rabbit IgG(H+L) (red), or 0.25 ug Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same antibody clone with 84879-6-



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). This data was developed using the same antibody clone with 84879-6-PBS in a different storage buffer formulation.

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). This data was developed using the same antibody clone with 84879-6-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 84879-6-PBS in a different storage buffer formulation.