

For Research Use Only

Methylmalonyl Coenzyme A mutase/MUT Polyclonal antibody, PBS Only

Catalog Number: 17034-1-PBS



Basic Information

Catalog Number: 17034-1-PBS	GenBank Accession Number: BC016282	Purification Method: Antigen affinity purification
Concentration: 1 mg/ml	GeneID (NCBI): 4594	
Source: Rabbit	UNIPROT ID: P22033	
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:
WB, IHC, IP, Indirect ELISA

Species Specificity:
human, mouse, rat

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 (PMID: 15647267). 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 (PMID: 30428564), resulting in life-threatening metabolic acidosis, respiratory distress, neurological impairment, hyperammonemia, and ketosis (PMID: 32679819). 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 (PMID: 23041189).

Storage

Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS only, pH7.3

For technical support and original validation data for this product please contact:

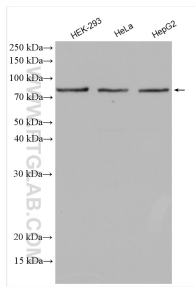
T: 4006900926

E: Proteintech-CN@ptglab.com

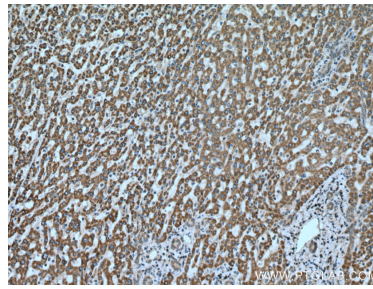
W: ptgcn.com

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

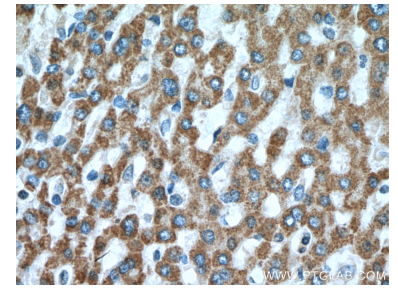
Selected Validation Data



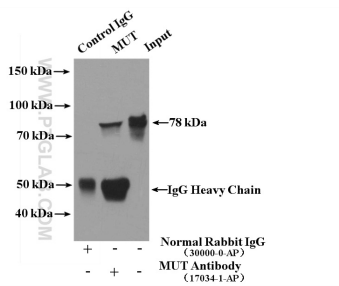
Various lysates were subjected to SDS PAGE followed by western blot with 17034-1-AP (Methylmalonyl Coenzyme A mutase/MUT antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 17034-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 17034-1-AP (Methylmalonyl Coenzyme A mutase/MUT antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 17034-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 17034-1-AP (Methylmalonyl Coenzyme A mutase/MUT antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 17034-1-PBS in a different storage buffer formulation.



IP result of anti-Methylmalonyl Coenzyme A mutase/MUT (IP:17034-1-AP, 4ug; Detection:17034-1-AP 1:500) with HepG2 cells lysate 1800ug. This data was developed using the same antibody clone with 17034-1-PBS in a different storage buffer formulation.