For Research Use Only

Methylmalonyl Coenzyme A mutase/MUT Polyclonal antibody, PBS Only

Catalog Number:17034-1-PBS

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
17034-1-PBS

Size:
100ug , Concentration: 1 mg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG10523

GenBank Accession Number:
BC016282

GeneID (NCBI):
4594

UNIPROT ID:
P22033

Full Name:
methylmalonyl Coenzyme A mutase

Calculated MW:
750 aa, 83 kDa

Observed MW:
78 kDa

Purification Method:
Antigen affinity purification

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.
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
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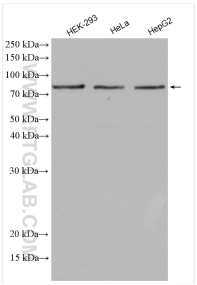
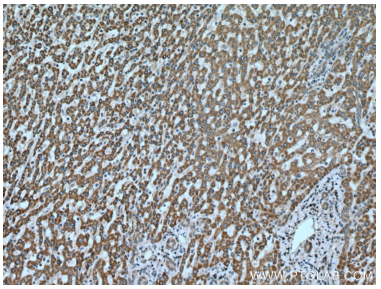
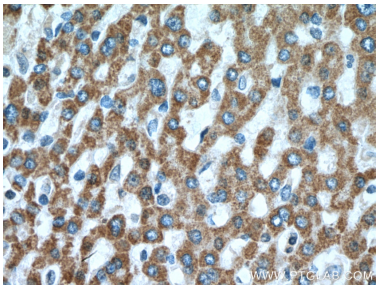
Selected Validation Data



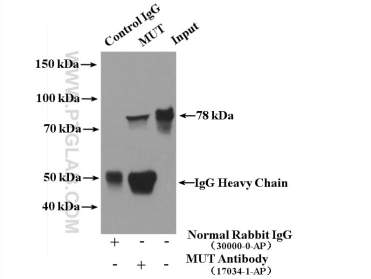
Various lysates were subjected to SDS PAGE followed by western blot with 17034-1-AP (Methylmalonyl Coenzyme A mutase/MUT antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 17034-1-PBS in a different storage buffer formulation.



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.