For Research Use Only

Methylmalonyl Coenzyme A mutase/MUT Recombinant antibody

Catalog Number:84879-5-RR

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Basic Information

Catalog Number:
84879-5-RR

Size:
1000 ug/ml

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:
Protein A purfication

CloneNo.:
242198F11

Recommended Dilutions:
WB 1:5000-1:50000

Applications

Tested Applications:
WB, ELISA

Species Specificity:
human, mouse, rat

Positive Controls:

WB : HEK-293 cells, HeLa cells, HepG2 cells, K-562 cells, mouse brain tissue, rat liver tissue

Background Information

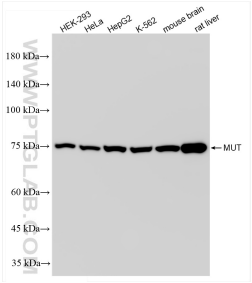
Methylmalonyl Coenzyme A mutase (MUT) is an enzyme that plays a crucial role in the metabolism of certain amino acids and fatty acids. Mutations in the MUT gene can lead to methylmalonic acidemia, a metabolic disorder characterized by the accumulation of toxic compounds such as methylmalonyl-CoA and 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

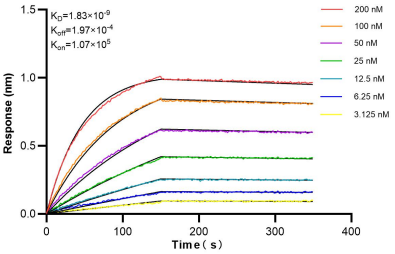
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 84879-5-RR (Methylmalonyl Coenzyme A mutase/MUT antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 84879-5-RR against Human Methylmalonyl Coenzyme A mutase/MUT were performed. The affinity constant is 1.83 nM.