

For Research Use Only

TRMU Recombinant antibody

Catalog Number: 86095-1-RR



Basic Information

Catalog Number:

86095-1-RR

Concentration:

1000 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG21930

GenBank Accession Number:

BC027991

GeneID (NCBI):

55687

UNIPROT ID:

O75648

Full Name:

tRNA 5-methylaminomethyl-2-thiouridylate methyltransferase

Calculated MW:

421 aa, 48 kDa

Observed MW:

45 kDa

Purification Method:

Protein A purification

CloneNo.:

250434A4

Recommended Dilutions:

WB: 1:5000-1:50000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

human, mouse, rat

Positive Controls:

WB: LNCaP cells, HeLa cells, A549 cells, MCF-7 cells, U2OS cells, NIH/3T3 cells, rat heart tissue

Background Information

TRMU (tRNA m5C methyltransferase) is a mitochondrial protein involved in the modification of mitochondrial tRNA. Specifically, it catalyzes the formation of 5-methylcytidine at position 34 (m5C34) in the anticodon stem-loop of mitochondrial tRNAs, which is crucial for maintaining the stability and function of these tRNAs. TRMU is a nuclear-encoded protein located in the mitochondrial matrix. It plays a vital role in mitochondrial translation and oxidative phosphorylation. TRMU is associated with several genetic disorders. Mutations in the TRMU gene can cause mitochondrial diseases, such as infantile hepatic failure syndrome. (PMID:23625533)

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

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

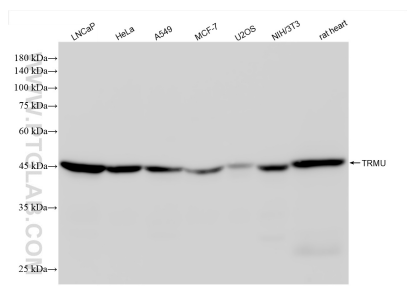
T: 4006900926

E: Proteintech-CN@ptglab.com

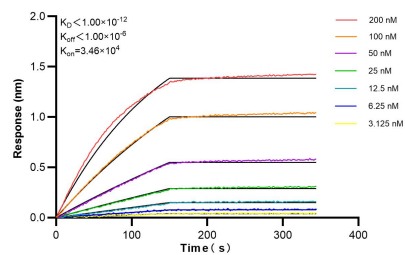
W: ptgcn.com

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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 86095-1-RR (TRMU antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 86095-1-RR against Human TRMU were performed. The affinity constant is below 1 pM.