

For Research Use Only

FTSJD2 Recombinant monoclonal antibody

Catalog Number: 87843-1-RR



Basic Information

Catalog Number:

87843-1-RR

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG26722

GenBank Accession Number:

BC031890

GeneID (NCBI):

23070

UNIPROT ID:

Q8N1G2

Full Name:

FtsJ methyltransferase domain containing 2

Calculated MW:

835 aa, 95 kDa

Observed MW:

96-100 kDa

Purification Method:

Protein A purification

CloneNo.:

253381G2

Recommended Dilutions:

WB: 1:5000-1:50000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

human, mouse, rat

Positive Controls:

WB : HeLa cells, HepG2 cells, HEK-293 cells, Jurkat cells, U-251 cells, NIH/3T3 cells, HSC-T6 cells

Background Information

Cap1 2' -O-methylation is catalyzed by cap methyltransferase 1 (CMTR1). CMTR1, also called IFN-stimulated gene 95 kDa protein (ISG95) or FTSJD2, is elevated by a viral infection and required to promote IFN-mediated induction of ISGs and the antiviral response. High CMTR1 expression is associated with poor prognosis in patients with CRC (PMID: 37024465). CMTr1 binds ATP-dependent RNA DHX15 helicase and that this interaction, mediated by the G-patch domain of CMTr1, has an advantageous effect on CMTr1 activity towards highly structured RNA substrates (PMID: 30397098). Human CMTR1 is a 95 kDa nuclear protein that has multiple domains, consisting of a G-patch domain, a RrmJ/FtsJ methyltransferase domain, a non-functional cap guanylyltransferase-like domain and a WW domain (PMID: 30312682).

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:

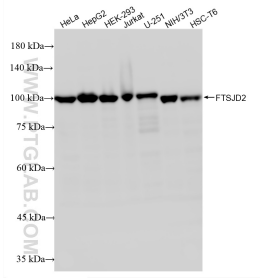
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 87843-1-RR (FTSJD2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.