

For Research Use Only

FTSJD2 Recombinant monoclonal antibody

Catalog Number: 87843-1-RR



Basic Information

Catalog Number: 87843-1-RR	GenBank Accession Number: BC031890	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 23070	CloneNo.: 253381G2
Source: Rabbit	UNIPROT ID: Q8N1G2	Recommended Dilutions: WB: 1:5000-1:50000
Isotype: IgG	Full Name: FtsJ methyltransferase domain containing 2	
Immunogen Catalog Number: AG26722	Calculated MW: 835 aa, 95 kDa	
	Observed MW: 96-100 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : HeLa cells, HepG2 cells, HEK-293 cells, Jurkat cells, U-251 cells, NIH/3T3 cells, HSC-T6 cells
Species Specificity: human, mouse, rat	

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

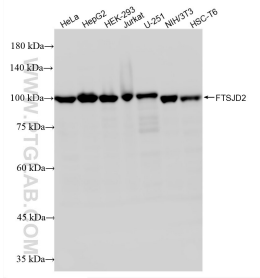
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

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)
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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.