

For Research Use Only

CoraLite® Plus 488-conjugated FTSJD2 Polyclonal antibody

Catalog Number:CL488-27707



Basic Information

Catalog Number: CL488-27707	GenBank Accession Number: BC031890	Purification Method: Antigen affinity purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 23070	Recommended Dilutions: IF/ICC 1:50-1:500
Source: Rabbit	UNIPROT ID: Q8N1G2	Excitation/Emission maxima wavelengths: 493 nm / 522 nm
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: IF/ICC, FC (Intra)	Positive Controls: IF/ICC : U2OS cells,
Species Specificity: human, mouse	

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).

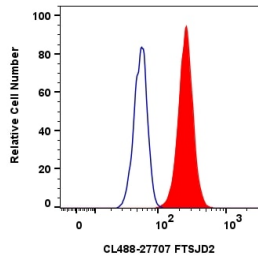
Storage

Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
Aliquoting is unnecessary for -20°C storage

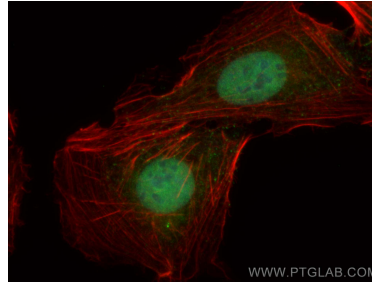
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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Selected Validation Data



1x10⁶ U-251 cells were intracellularly stained with 0.8 ug Coralite® Plus 488 Ftsjd2 Polyclonal Antibody (CL488-27707)(red), or 0.8 ug Coralite® Plus 488-conjugated Rabbit IgG control Rabbit PolyAb (CL488-30000) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



Immunofluorescent analysis of (4% PFA) fixed U2OS cells using Coralite® Plus 488 FTSJD2 antibody (CL488-27707) at dilution of 1:100, CL594-phalloidin (red).