

For Research Use Only

CoraLite® Plus 488-conjugated TMEM53 Recombinant antibody

Catalog Number:CL488-83554-3



Basic Information

Catalog Number: CL488-83554-3	GenBank Accession Number: BC064520	Purification Method: Protein A purification
Size: 1000 ug/ml	GeneID (NCBI): 79639	CloneNo.: 240511C3
Source: Rabbit	UNIPROT ID: Q6P2H8	Recommended Dilutions: IF/ICC 1:50-1:500
Isotype: IgG	Full Name: transmembrane protein 53	Excitation/Emission maxima wavelengths: 493 nm / 522 nm
Immunogen Catalog Number: AG21321	Calculated MW: 277 aa, 32 kDa	

Applications

Tested Applications: IF/ICC, FC (Intra)	Positive Controls: IF/ICC : A549 cells,
Species Specificity: human	

Background Information

TMEM53 was initially described as a nuclear envelope transmembrane (NET) protein because of its nuclear envelope localization. Research has found that TMEM53 functionality does not rely on viral RNA binding or canonical IFN responses, and TMEM53 exerts an antiviral effect on other bat HKU2-related CoVs in a species-specific manner. Therefore, TMEM53 may be a potential therapeutic target for HKU2-related CoV infections and useful for preparing for future outbreaks of this viral species. (PMID: 37584551)

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:

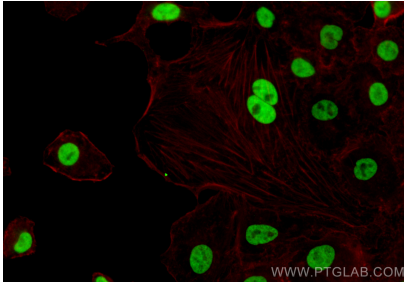
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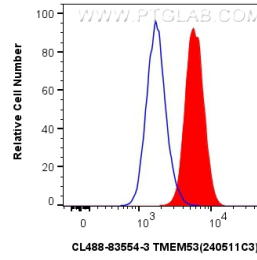
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Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed A549 cells using CoraLite® Plus 488 TMEM53 antibody (CL488-83554-3, Clone: 240511C3) at dilution of 1:200.



1x10⁶ A549 cells were intracellularly stained with 0.4 ug CoraLite® Plus 488-conjugated TMEM53 Recombinant antibody (CL488-83554-3, Clone:240511C3)(red), or 0.4 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).