

For Research Use Only

TMEM53 Recombinant antibody

Catalog Number: 83554-3-RR



Basic Information

Catalog Number: 83554-3-RR	GenBank Accession Number: BC064520	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 79639	CloneNo.: 240511C3
Source: Rabbit	UNIPROT ID: Q6P2H8	Recommended Dilutions: IF/ICC 1:200-1:800
Isotype: IgG	Full Name: transmembrane protein 53	
Immunogen Catalog Number: AG21321	Calculated MW: 277 aa, 32 kDa	

Applications

Tested Applications: IF/ICC, FC (Intra), ELISA	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. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

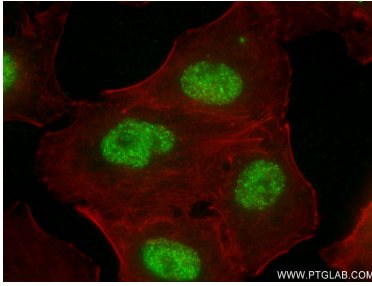
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

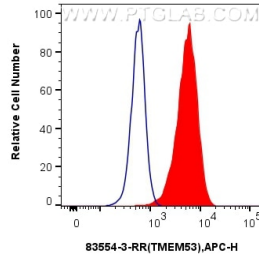
E: proteintech@ptglab.com
W: ptglab.com

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

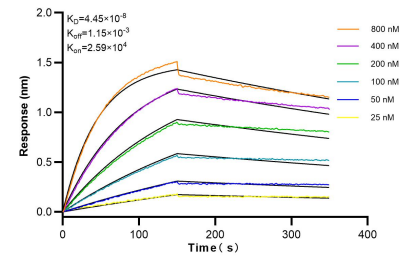
Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed A549 cells using TMEM53 antibody (83554-3-RR, Clone: 240511C3) at dilution of 1:400 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-1), CL594-Phalloidin (red).



1x10⁶ A549 cells were intracellularly stained with 0.25 ug TMEM53 Recombinant antibody (83554-3-RR, Clone:240511C3) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



Bi-layer interferometry (BLI) kinetic assays of 83554-3-RR against Human TMEM53 were performed. The affinity constant is 44.5 nM.