For Research Use Only

TMEM53 Recombinant antibody

Size:

Catalog Number:83554-3-RR



Purification Method:

Protein A purfication

IF/ICC 1:200-1:800

Recommended Dilutions:

CloneNo.:

240511C3

Basic Information

Catalog Number: 83554-3-RR

BC064520 GeneID (NCBI):

1000 $\,\mu$ g/ml 79639 **UNIPROT ID:** Source: Rabbit Q6P2H8 Full Name: Isotype:

transmembrane protein 53

Calculated MW: Immunogen Catalog Number: AG21321 277 aa, 32 kDa

Applications

Tested Applications: IF/ICC, FC (Intra), ELISA

Species Specificity:

human

Positive Controls: IF/ICC: A549 cells,

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)

GenBank Accession Number:

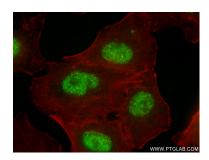
Storage

Store at -20°C. Stable for one year after shipment.

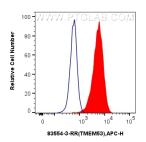
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

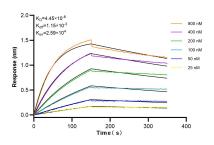
Selected Validation Data



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 Affini Pure Goat Anti-Mouse IgG(H+L) (SA00013-1), CL594-Phalloidin (red).



1x10^6 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).



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