

For Research Use Only

TMEM173/STING Recombinant antibody

Catalog Number: 80165-1-RR

3 Publications



Basic Information

Catalog Number: 80165-1-RR	GenBank Accession Number: BC047779	Purification Method: Protein A purification
Size: 100ul, Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 340061	CloneNo.: 7K7
Source: Rabbit	UNIPROT ID: Q86WW6	Recommended Dilutions: WB 1:2000-1:10000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:1000-1:4000 IF-P 1:200-1:800 IF-Fro 1:200-1:800 IF/ICC 1:50-1:500
Isotype: IgG	Full Name: transmembrane protein 173	
Immunogen Catalog Number: AG13921	Calculated MW: 379 aa, 42 kDa	
	Observed MW: 37 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, IF-P, IF-Fro, IP, ELISA	Positive Controls: WB : HeLa cells, MOLT-4 cells, Jurkat cells, K-562 cells, THP-1 cells, HSC-T6 cells, NIH/3T3 cells IP : HeLa cells, IHC : human tonsillitis tissue, human colon tissue, human liver tissue IF-P : human tonsillitis tissue, IF-Fro : mouse cerebellum tissue, IF/ICC : THP-1 cells, human tonsillitis tissue
Cited Applications: WB, IHC, IF	
Species Specificity: human	
Cited Species: human, mouse	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

Stimulator of interferon genes (STING, also known as ERIS, MITA and MPYS, and encoded by TMEM173) is a transmembrane adaptor protein that facilitates innate immune signaling (PMID: 18724357). STING is widely expressed in various cell types such as endothelial cells, epithelial cells, T cells, macrophages, and dendritic cells (PMID: 26603901). It is predominantly located in the endoplasmic reticulum (ER). STING functions as a sensor of cytosolic DNA and promotes the production of type I interferons and pro-inflammatory cytokines.

Notable Publications

Author	Pubmed ID	Journal	Application
Congyang Zheng	39333876	Mol Med	IF
Jiawei Ma	39121926	J Ethnopharmacol	WB,IHC,IF
Yuyan Guo	37751655	Int Immunopharmacol	WB

Storage

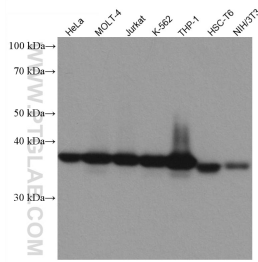
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

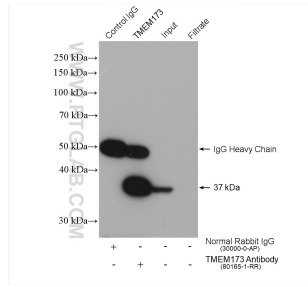
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

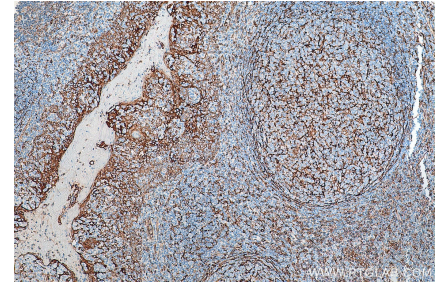
Selected Validation Data



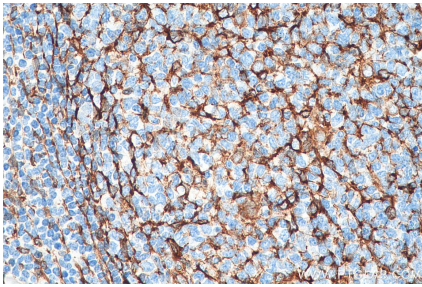
Various lysates were subjected to SDS PAGE followed by western blot with 80165-1-RR (TMEM173/STING antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



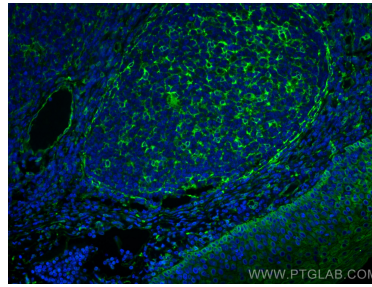
IP result of anti-TMEM173/STING (IP: 80165-1-RR, 4 μ g; Detection: 80165-1-RR 1:8000) with HeLa cells lysate 1800 μ g.



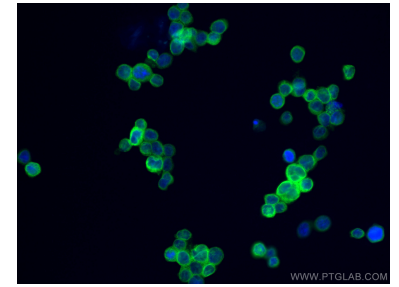
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 80165-1-RR (TMEM173/STING antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



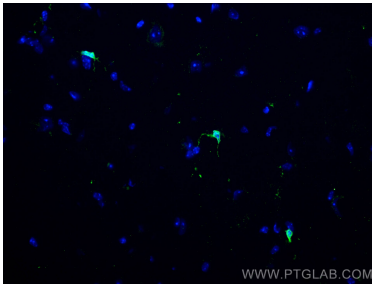
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 80165-1-RR (TMEM173/STING antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



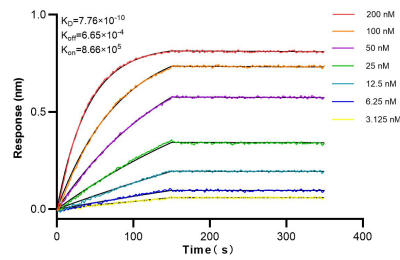
Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using TMEM173/STING antibody (80165-1-RR, Clone: 7K7) at dilution of 1:400 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed THP-1 cells using TMEM173/STING antibody (80165-1-RR, Clone: 7K7) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed frozen OCT-embedded mouse cerebellum tissue using TMEM173/STING antibody (80165-1-RR, Clone: 7K7) at dilution of 1:400 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Biolayer interferometry (BLI) kinetic assays of 80165-1-RR against Human TMEM173/STING were performed. The affinity constant is 0.776 nM.