

For Research Use Only

# TMEM173/STING Recombinant antibody



Catalog Number: 80165-1-RR

1 Publications

## Basic Information

**Catalog Number:**

80165-1-RR

**Size:**

1000 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG13921

**GenBank Accession Number:**

BC047779

**GeneID (NCBI):**

340061

**UNIPROT ID:**

Q86WW6

**Full Name:**

transmembrane protein 173

**Calculated MW:**

379 aa, 42 kDa

**Observed MW:**

37 kDa

**Purification Method:**

Protein A purification

**CloneNo.:**

7K7

**Recommended Dilutions:**

WB 1:2000-1:10000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:1000-1:4000

IF 1:50-1:500

## Applications

**Tested Applications:**

IF/ICC, IF-P, IHC, IP, WB, ELISA

**Cited Applications:**

WB

**Species Specificity:**

Human, Mouse, Rat

**Cited Species:**

mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**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 liver tissue

**IF:** THP-1 cells, human tonsillitis tissue

## 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
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 pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

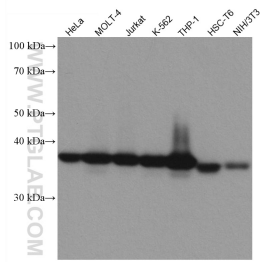
T: 4006900926

E: Proteintech-CN@ptglab.com

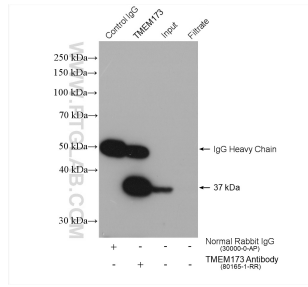
W: ptgcn.com

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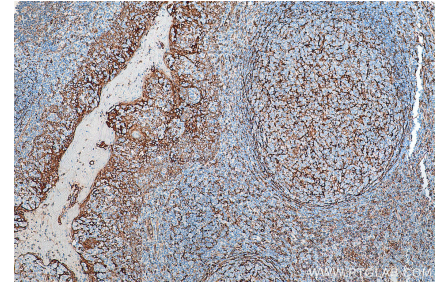
## Selected Validation Data



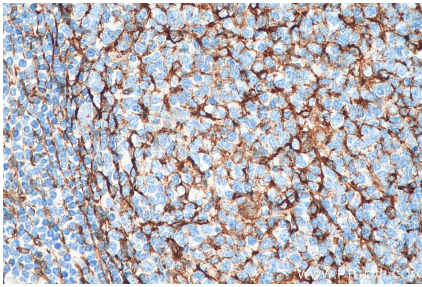
Various lysates were subjected to SDS PAGE followed by western blot with 80165-1-RR (TMEM173/STING antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



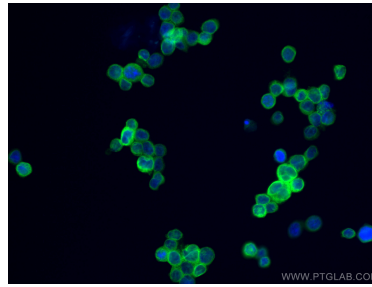
IP result of anti-TMEM173/STING (IP: 80165-1-RR, 4ug; Detection: 80165-1-RR 1:8000) with HeLa cells lysate 1800 ug.



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 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).