

## TMEM173/STING Monoclonal antibody

Catalog Number: 66680-1-Ig

Featured Product

40 Publications

## Basic Information

## Catalog Number:

66680-1-Ig

## Concentration:

1500 ug/ml

## Source:

Mouse

## Isotype:

IgG2b

## Immunogen Catalog Number:

AG20363

## GenBank Accession Number:

BC047779

## GeneID (NCBI):

340061

## UNIPROT ID:

Q86WV6

## Full Name:

transmembrane protein 173

## Calculated MW:

379 aa, 42 kDa

## Observed MW:

37 kDa

## Purification Method:

Protein A purification

## CloneNo.:

1F1E1

## Recommended Dilutions:

WB 1:5000-1:50000

IHC 1:500-1:2000

IF-P 1:200-1:800

## Applications

## Tested Applications:

WB, IHC, IF-P, ELISA

## Cited Applications:

WB, IHC, IF, IP

## Species Specificity:

human, rat

## Cited Species:

human, rat

**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, HepG2 cells, HSC-T6 cells, HEK-293 cells, THP-1 cells, MOLT-4 cells, Jurkat cells

**IHC** : human tonsillitis tissue, human spleen tissue

**IF-P** : 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. STING is a 379 amino acid protein with a calculated molecular weight of 42 kDa. It has been observed at 35-40 kDa (PMID: 27324217; 29632140; 30918080), and 70-80 kDa corresponding to the expected size of a STING dimer (PMID: 25790474; 29491158).

## Notable Publications

Author	Pubmed ID	Journal	Application
Mu-zi Li	36238763	J Inflamm Res	WB, IHC, IF
Jiaqi Shi	34182334	Cell Immunol	WB
Ming Zou	35347235	Cell Death Differ	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

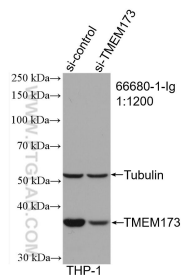
For technical support and original validation data for this product please contact:

T: 4006900926

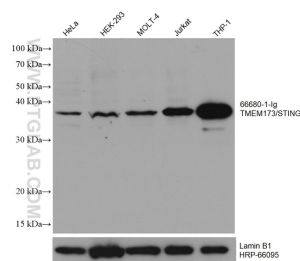
E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)W: [ptgcn.com](http://ptgcn.com)

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

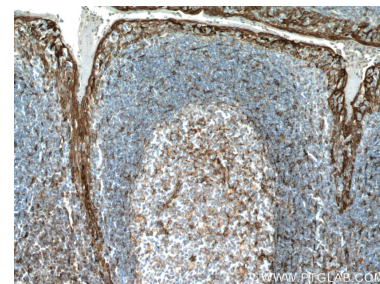
## Selected Validation Data



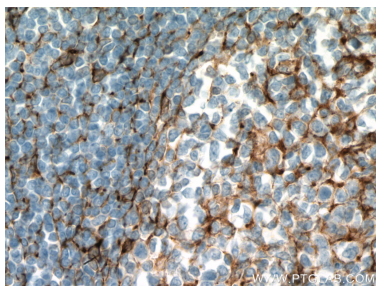
WB result of TMEM173/STING antibody (66680-1-Ig; 1:1200; incubated at room temperature for 1.5 hours) with sh-Control and sh-TMEM173/STING transfected THP-1 cells.



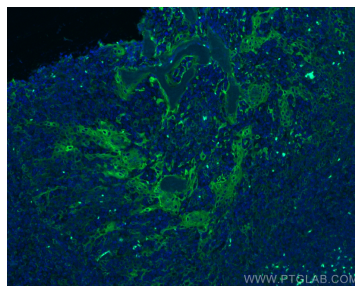
Various lysates were subjected to SDS PAGE followed by western blot with 66680-1-Ig (TMEM173/STING antibody) at dilution of 1:15000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Lamin B1 Monoclonal antibody (HRP-66095) as loading control.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66680-1-Ig (TMEM173/STING antibody) at dilution of 1:1000 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66680-1-Ig (TMEM173/STING antibody) at dilution of 1:1000 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human tonsillitis tissue using TMEM173/STING antibody (66680-1-Ig, Clone: 1F1E1) at dilution of 1:400 and CoraLite® 488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).