

Catalog Number: 19851-1-AP

Featured Product

247 Publications

Basic Information

Catalog Number:

19851-1-AP

Size:

700 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG13921

GenBank Accession Number:

BC047779

GeneID (NCBI):

340061

UNIPROT ID:

Q86WV6

Full Name:

transmembrane protein 173

Calculated MW:

379 aa, 42 kDa

Observed MW:

35-40 kDa, 80 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:4000

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

IHC 1:2000-1:8000

IF 1:50-1:500

Applications

Tested Applications:

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

Cited Applications:

WB, IP, IHC, IF, FC, ColP, Blocking assay

Species Specificity:

human, mouse, rat

Cited Species:

human, rat, mouse, monkey, pig

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 : HEK-293 cells, mouse kidney tissue, HepG2 cells, Raji cells, mouse spleen tissue, THP-1 cells, HL-60 cells, mouse testis tissue, HT-29 cells, mouse thymus tissue, C2C12 cells

IP : mouse spleen tissue,

IHC : human tonsillitis tissue, rat thymus tissue, mouse thymus tissue, human spleen tissue, human liver cancer tissue

IF : HT-29 cells, human tonsillitis tissue, THP-1 cells

Background Information

Stimulator of interferon genes (STING, also known as ERI5, 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
Junzhe Jiao	36174680	Am J Pathol	WB, IHC, IF
Pu Song	36125406	EMBO Rep	WB, IF
Yulin Xu	34578409	Viruses	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

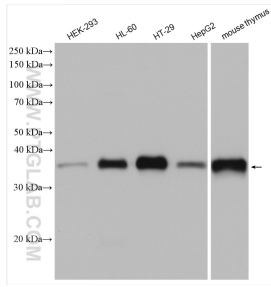
For technical support and original validation data for this product please contact:

T: 4006900926

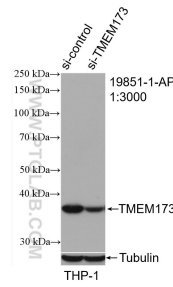
E: Proteintech-CN@ptglab.comW: ptgcn.com

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

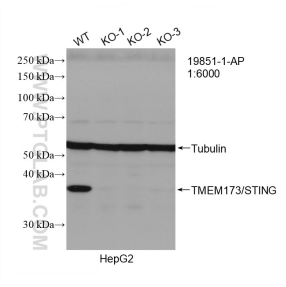
Selected Validation Data



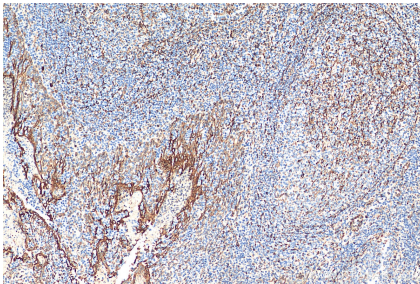
Various lysis were subjected to SDS PAGE followed by western blot with 19851-1-AP (TMEM173/STING antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



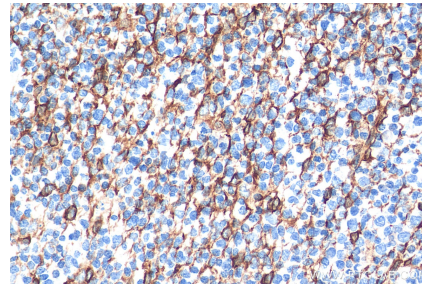
WB result of TMEM173/STING antibody (19851-1-AP; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-TMEM173/STING transfected THP-1 cells.



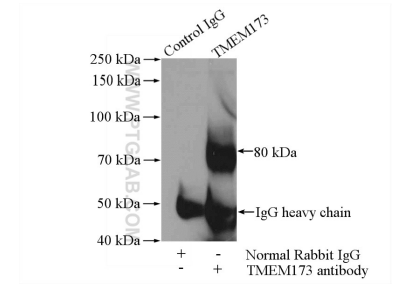
WB result of TMEM173/STING antibody (19851-1-AP; 1:6000; room temperature for 1.5 hours) with wild-type and TMEM173/STING knockout HepG2 cells.



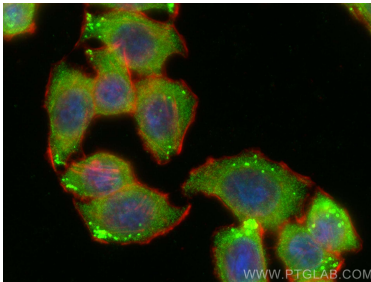
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 19851-1-AP (TMEM173/STING antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



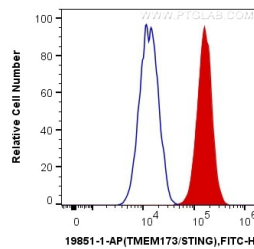
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 19851-1-AP (TMEM173/STING antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-TMEM173/STING (IP:19851-1-AP, 4ug; Detection:19851-1-AP 1:1000) with mouse spleen tissue lysate 4000ug.



Immunofluorescent analysis of (-20°C Ethanol) fixed HT-29 cells using TMEM173/STING antibody (19851-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).



1X10⁶ THP-1 cells were intracellularly stained with 0.4 ug Anti-Human TMEM173/STING (19851-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).