

For Research Use Only

# CoraLite® Plus 647-conjugated TMEM173/STING Recombinant antibody

Catalog Number: CL647-80165

1 Publications



## Basic Information

|   |  |   |
|---|--|---|
| <b>Catalog Number:</b><br>CL647-80165                             | <b>GenBank Accession Number:</b><br>BC047779   | <b>Purification Method:</b><br>Protein A purification                 |
| <b>Size:</b><br>100ul , Concentration: 1000 ug/ml by<br>Nanodrop; | <b>GeneID (NCBI):</b><br>340061                | <b>CloneNo.:</b><br>7K7   |
| <b>Source:</b><br>Rabbit  | <b>UNIPROT ID:</b><br>Q86WW6                   | <b>Recommended Dilutions:</b><br>IF-P 1:50-1:500                      |
| <b>Isotype:</b><br>IgG  | <b>Full Name:</b><br>transmembrane protein 173 | <b>Excitation/Emission maxima<br/>wavelengths:</b><br>654 nm / 674 nm |
| <b>Immunogen Catalog Number:</b><br>AG13921                       | <b>Calculated MW:</b><br>379 aa, 42 kDa        |   |
|   | <b>Observed MW:</b><br>37 kDa                  |   |

## Applications

|  |   |
|--|---|
| <b>Tested Applications:</b><br>IF-P              | <b>Positive Controls:</b><br>IF-P : human tonsillitis tissue, |
| <b>Cited Applications:</b><br>IF                 |   |
| <b>Species Specificity:</b><br>Human, Mouse, Rat |   |
| <b>Cited Species:</b><br>rat                     |   |

## Background Information

Stimulator of interferon genes (STING, also known as ERS1, MIRA 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 |
|-----------|-----------|----------|-------------|
| Hui Zhang | 37720090  | iScience | IF          |

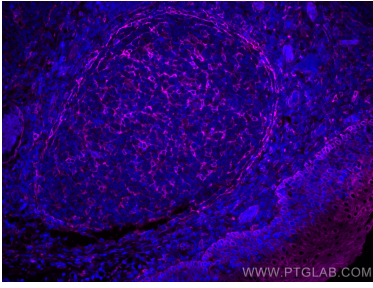
## Storage

**Storage:**  
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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



Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using CoraLite® Plus 647 TMEM173/STING antibody (CL647-80165, Clone: 7K7) at dilution of 1:200.