

## Anti-MPYS TMEM173 Antibody

Catalog Number: A01871-1

### About TMEM173

MPYS is a recently identified plasma membrane tetraspanner that is associated with major histocompatibility complex class II (MHC-II) and mediates its transduction of apoptotic signals. It has also been found to be associated with VISA, a mitochondrial protein that acts as an adaptor in virus-triggered signaling. MPYS also interacts with IRF3 and recruits the kinase TBK1 to the VISA-associated complex, acting as a critical mediator of virus-triggered IRF3 activation and interferon (IFN) expression. It is thought that the binding of nucleic acid to the innate immune protein RIG-I causes complex formation between RIG-I, VISA, and MPYS. This complex then recruits TBK1 to phosphorylate IRF3 which then directly activates IFN transcription. At least three isoforms of MPYS are known to exist.

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### Overview

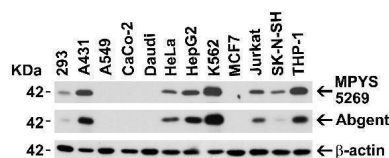
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|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name         | Anti-MPYS TMEM173 Antibody                                                                                                                     |
| Reactive Species     | Human, Mouse                                                                                                                                   |
| Description          | Boster Bio Anti-MPYS TMEM173 Antibody (Catalog # A01871-1). Tested in ELISA, WB, ICC, IF applications. This antibody reacts with Human, Mouse. |
| Application          | ELISA, IF, ICC, WB                                                                                                                             |
| Clonality            | Polyclonal                                                                                                                                     |
| Formulation          | MPYS Antibody is supplied in PBS containing 0.02% sodium azide.                                                                                |
| Storage Instructions | MPYS antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.                            |
| Host                 | Rabbit                                                                                                                                         |
| Uniprot ID           | Q86WV6                                                                                                                                         |

### Technical Details

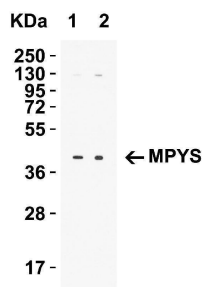
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|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Immunogen                  | Anti-MPYS antibody was raised against a peptide corresponding to 17 amino acids near the carboxy terminus of human MPYS. The immunogen is located within amino acids 260-310 of MPYS. |
| Predicted Reactive Species | Bovine, Chicken, Pig, Rat                                                                                                                                                             |

|                     |                                                                                                                                                                                                                                                                                                           |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Isotype             | IgG                                                                                                                                                                                                                                                                                                       |
| Form                | Liquid                                                                                                                                                                                                                                                                                                    |
| Concentration       | 1 mg/mL                                                                                                                                                                                                                                                                                                   |
| Purification        | MPYS Antibody is affinity chromatography purified via peptide column.                                                                                                                                                                                                                                     |
| Suggested Dilutions | WB: 1-2 ug/mL; ICC: 5 ug/mL; IF: 20 ug/mL.<br>Antibody validated: Western Blot in human and mouse samples; Immunocytochemistry and Immunofluorescence in mouse samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher. |

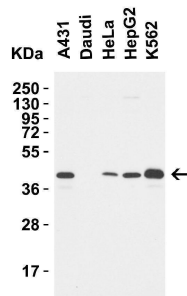
## Anti-MPYS TMEM173 Antibody (A01871-1) Images



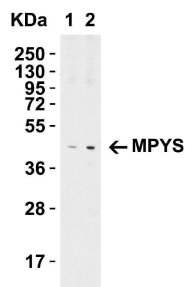
Independent Antibody Validation (IAV) via Protein Expression Profile in Human Cell Lines Loading: 15 ug of lysates per lane. Antibodies: MPYS A01871-1 (1 ug/mL), MPYS 64-236 (2 ug/mL) and beta-actin 3779 (1 ug/mL), 1h incubation at RT in 5% NFDm/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



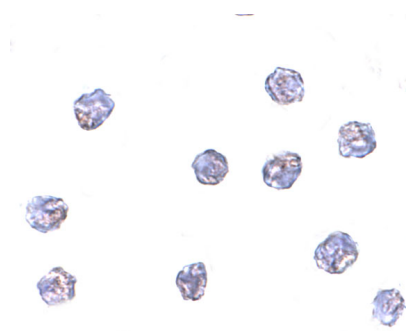
Western Blot Validation in Human THP-1 Cell Lysate Loading: 15 ug of lysates per lane. Antibodies: MPYS A01871-1 (Lane 1: 1 ug/mL and Lane 2: 2 ug/mL), 1h incubation at RT in 5% NFDm/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



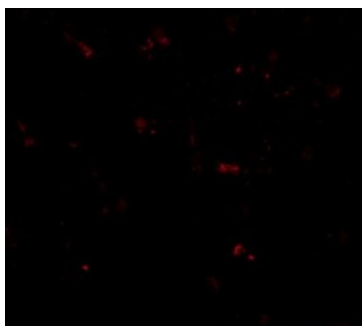
Western Blot Validation in Human Cell Lines Loading: 15 ug of lysates per lane. Antibodies: MPYS A01871-1 (1 ug/mL), 1h incubation at RT in 5% NFDm/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



Western Blot Validation in Mouse A-20 Cell Lysate Loading: 15 ug of lysates per lane. Antibodies: MPYS A01871-1 (Lane 1: 1 ug/mL and Lane 2: 2 ug/mL), 1h incubation at RT in 5% NFDm/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



Immunocytochemistry Validation of MPYS in Mouse A20 Cells  
Immunocytochemical analysis of A20 cells using anti-MPYS antibody (A01871-1) at 5 ug/ml. Cells were fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4°C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.



Immunofluorescence Validation of MPYS in Moue A20 Cells  
Immunofluorescent analysis of 4% paraformaldehyde-fixed  
A20 Cells labeling MPYS with A01871-1 at 20 ug/mL,  
followed by goat anti-rabbit IgG secondary antibody at 1/500  
dilution (red).

[Anti-MPYS TMEM173 Antibody](#)

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