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Datasheet for 600-401-C08

MPYS Antibody

Overview

Description:	Anti-MPYS (RABBIT) Antibody - 600-401-C08
Item No.:	600-401-C08
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

Background:	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. Anti-MYPS antibody is ideal for investigators involved transcription factor and infectious disease.
Synonyms:	MPYS, Transmembrane protein 173, TMEM173, ERIS, MITA, STING, Stimulator of interferon genes protein, hSTING, Mediator of IRF3 activation
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	TMEM173
Reactivity:	Human, Mouse
Immunogen Type:	Conjugated Peptide

Immunogen:	MPYS Antibody was produced from whole rabbit serum prepared by repeated immunizations with a peptide near the c-terminus of human MPYS.
Purity/Specificity:	Anti-MPYS Antibody was affinity purified from monospecific antiserum by immunoaffinity purification. A BLAST analysis was used to suggest cross-reactivity with MPYS with Human and Mouse based on 100% homology with the immunizing sequence. Cross-reactivity with MPYS from other sources has not been determined.
Relevant Links:	• UniProtKB - Q86WV6 • NCBI - NP_938023 • GeneID - 340061

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-MPYS antibody has been tested in ELISA, WB, IF, and ICC. Specific conditions for reactivity should be optimized by the end user. Expect a band at ~37-42 kDa in size corresponding to MPYS by Western blotting in the appropriate cell lysate or extract. A20 cell lysate may be used as positive control.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000 - 1:40,000
IF:	20 µg/mL
WB:	1.0 - 2.0 µg/mL

Formulation

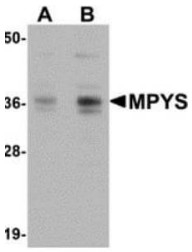
Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Wet Ice

Storage Condition:	Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot
Western blot of MPYS Antibody. Lysate: A20 cell lysate. Primary antibody: Anti-MPYS at 1.0 µg/mL (Lane A); 2.0 µg/mL (Lane B). Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C.

Immunocytochemistry
Immunocytochemistry showing detection of MPYS in A20 cells. For primary antibody, a concentration of 5µg/mL was used.

Disclaimer

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