

<b>#4983</b> Store at -20C	MAVS Antibody	
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**For Research Use Only. Not for Use in Diagnostic Procedures.**

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB, IP, IF-F, IF-IC	M R	Endogenous	75, 52	Rabbit	#Q7Z434	57506

### Product Usage Information

#### Application

Western Blotting  
Immunoprecipitation  
Immunofluorescence (Frozen)  
Immunofluorescence (Immunocytochemistry)

#### Dilution

1:1000  
1:50  
1:50  
1:50

### Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.

### Specificity / Sensitivity

MAVS Antibody detects endogenous levels of total MAVS/VISA protein. The bands detected at 52 and 75 kDa correlate with those described by Seth et al. (2005).

### Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Cys140 of mouse MAVS/VISA. Antibodies were purified by affinity chromatography.

### Background

The mitochondrial antiviral signaling protein (MAVS, VISA) contributes to innate immunity by triggering IRF-3 and NF-κB activation in response to viral infection, leading to the production of IFN-β (1). The MAVS protein contains an N-terminal CARD domain and a C-terminal mitochondrial transmembrane domain. The MAVS adaptor protein plays a critical and specific role in viral defenses (2). MAVS acts downstream of the RIG-I RNA helicase and viral RNA sensor, leading to the recruitment of IKKε, TRIF, and TRAF6 (3,4). Some viruses have evolved strategies to circumvent these innate defenses by using proteases that cleave MAVS to prevent its mitochondrial localization (5,6).

### Background References

- Seth, R.B. et al. (2005) *Cell* 122, 669-682.
- Sun, Q. et al. (2006) *Immunity* 24, 633-642.
- Xu, L.G. et al. (2005) *Mol. Cell* 19, 727-740.
- Yoneyama, M. et al. (2004) *Nat. Immunol.* 5, 730-737.
- Lin, R. et al. (2006) *J. Virol.* 80, 6072-6083.
- Chen, Z. et al. (2007) *J. Virol.* 81, 964-976.

### Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

### Western Blot Buffer

**IMPORTANT:** For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween@ 20 at 4°C with gentle shaking, overnight.

### Applications Key

**WB:** Western Blotting **IP:** Immunoprecipitation **IF-F:** Immunofluorescence (Frozen)  
**IF-IC:** Immunofluorescence (Immunocytochemistry)

### Cross-Reactivity Key

**H:** human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster  
**X:** Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse  
**GP:** Guinea Pig **Rab:** rabbit **All:** all species expected

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