

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human MAVS in direct ELISAs.
Source	Monoclonal Mouse IgG _{2B} Clone # 981240
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human MAVS Arg37-Pro513 Accession # Q7Z434
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Immunohistochemistry Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Mitochondrial antiviral signaling protein (MAVS, also known as IPS-1, VISA, and CARDIF) is a ubiquitous, tail-anchored membrane protein inserted in the outer mitochondrial membrane (OMM), and is also found in the peroxisomal membrane and the mitochondrial associated membrane of the endoplasmic reticulum. Peroxisomal MAVS has been implicated in type II IFN-dependent antiviral response, while mitochondrial MAVS mediates longer lasting type I IFN dependent antiviral response. Mitochondrial reactive oxygen species (mROS) induce oligomerization of MAVS in the outer membrane plane of mitochondria to induce innate immunity to viral infection. MAVS undergoes RIG-I-like receptors (RLR)-induced formation of higher order structures ranging from dimers to prion-like aggregates that lead to the recruitment and activation of signaling proteins culminating in the activation of the transcription factors IRF-3 and NF-κB and transcription of IFNs

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