**BACKGROUND**

MAVS (mitochondrial antiviral-signaling protein), also known as IPS1, KIAA1271, VISA or CARDIF, is a 540 amino acid protein that contains one CARD domain and several transmembrane domains and localizes to the outer mitochondrial membrane. Expressed throughout the body with highest expression in liver, heart, placenta, skeletal muscle and peripheral blood leukocytes, MAVS functions downstream of proteins, such as RIG-I, that detect double-stranded (ds) viral replication and is required for proper immune response against ds viral infection. MAVS is thought to activate pathways that lead to the induction of antiviral cytokines and may protect the cells from viral-induced apoptosis. MAVS function can be inactivated via cleavage by a protease complex that degrades the CARD and trans-membrane domains, thereby preventing MAVS from interacting with other proteins. Three isoforms of MAVS are expressed due to alternative splicing events.

**CHROMOSOMAL LOCATION**

Genetic locus: MAVS (human) mapping to 20p13.

**SOURCE**

MAVS (E-3) is a mouse monoclonal antibody raised against amino acids 1-135 mapping within an N-terminal cytoplasmic domain of MAVS of human origin.

**PRODUCT**

Each vial contains 200 µg IgG2a kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

MAVS (E-3) is available conjugated to agarose (sc-166583 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-166583 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-166583 PE), fluorescein (sc-166583 FITC), Alexa Fluor® 488 (sc-166583 AF488), Alexa Fluor® 546 (sc-166583 AF546), Alexa Fluor® 594 (sc-166583 AF594) or Alexa Fluor® 647 (sc-166583 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-166583 AF680) or Alexa Fluor® 790 (sc-166583 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

**APPLICATIONS**

MAVS (E-3) is recommended for detection of MAVS of human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for MAVS siRNA (h); sc-75755, MAVS shRNA Plasmid (h); sc-75755-SH and MAVS shRNA (h) Lentiviral Particles: sc-75755-V.

Molecular Weight of cleaved MAVS: 51-54 kDa.

Molecular Weight of endogenous MAVS: 57 kDa.

Molecular Weight of aggregated MAVS: 75 kDa.

**STORAGE**

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**DATA**

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

For research use only, not for use in diagnostic procedures.

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