MAVS (E-6): sc-365334

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 degradesthe CARD and transmembrane domains, thereby preventing MAVS from interacting with other proteins. Three isoforms of MAVS are expressed due to alternative splicing events.

REFERENCES

CHROMOSOMAL LOCATION
Genetic locus: Mavs (mouse) mapping to 2 F1.

SOURCE
MAVS (E-6) is a mouse monoclonal antibody raised against amino acids 1-300 mapping within an N-terminal cytoplasmic domain of MAVS of mouse origin.

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

MAVS (E-6) is available conjugated to agarose (sc-365334 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-365334 HRP), 200 µg/ml, for WB, IHCP and ELISA; to either phycoerythrin (sc-365334 PE), fluorescein (sc-365334 FITC), Alexa Fluor® 488 (sc-365334 AF488), Alexa Fluor® 546 (sc-365334 AF546), Alexa Fluor® 594 (sc-365334 AF594) or Alexa Fluor® 647 (sc-365334 AF647), 200 µg/ml, for WB (RGB), IF, IHCP and FCM; and to either Alexa Fluor® 680 (sc-365334 AF680) or Alexa Fluor® 790 (sc-365334 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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

APPLICATIONS
MAVS (E-6) is recommended for detection of MAVS of mouse 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:300).

Suitable for use as control antibody for MAVS siRNA (m): sc-75756, MAVS shRNA Plasmid (m): sc-75756-SH and MAVS shRNA (m) Lentiviral Particles: sc-75756-V.

Molecular Weight of cleaved MAVS: 51-54 kDa.
Molecular Weight of endogenous MAVS: 57 kDa.
Molecular Weight of aggregated MAVS: 75 kDa.
Positive Controls: BYDP whole cell lysate: sc-364368, F9 cell lysate: sc-2245 or Neuro-2A whole cell lysate: sc-364185.

RECOMMENDED SUPPORT REAGENTS
To ensure optimal results, the following support reagents are recommended:

DATA

SELECT PRODUCT CITATIONS

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