

Rabbit anti-Human VISA Polyclonal Antibody | anti-VISA antibody

VISA Antibody

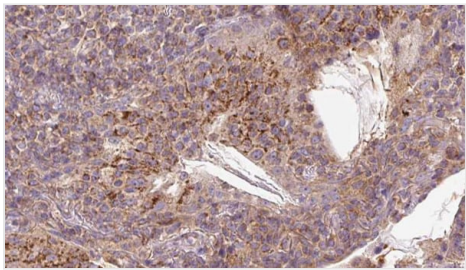
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA323035	Rabbit	Human	Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

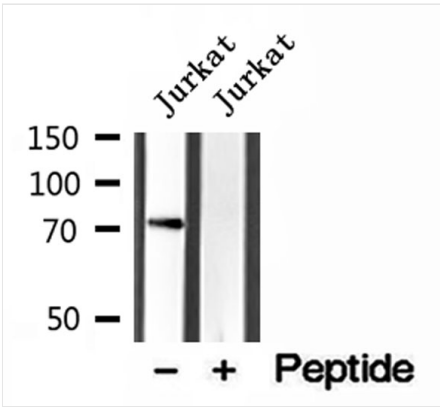
VISA; Polyclonal Antibody; VISA Antibody; CARD adaptor inducing interferon beta; CARD adaptor inducing IFN beta; Cardif; DKFZp666M015; FLJ27482; FLJ41962; IFN B promoter stimulator 1; Interferon beta promoter stimulator protein 1; Ips 1; IPS-1; Ips1; KIAA1271; MAVS; MAVS_HUMAN; Mitochondrial anti viral signaling protein; Mitochondrial Antiviral Signaling; Mitochondrial antiviral signaling protein; Mitochondrial antiviral-signaling protein; Putative NF kappa B activating protein 031N; Putative NF-kappa-B-activating protein 031N; Virus induced signaling adapter; virus induced signaling adaptor; Virus-induced-signaling adapter; anti-VISA antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	VISA antibody detects endogenous levels of VISA.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	399
Applicable Applications for anti-VISA antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human VISA.
Subcellular Location	Mitochondrion Outer Membrane
Tissue Specificity	Present in T-cells, monocytes, epithelial cells and hepatocytes (at protein level). Ubiquitously expressed, with highest levels in heart, skeletal muscle, liver, placenta and peripheral blood leukocytes.
Predicted Cross Reactivity	Chicken
Similarity	Chicken (80%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IHC (Immunohistochemistry)
AAA323035 at 1/100 staining Human lymph cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of extracts of Jurkat cells, using VISA antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-VISA antibody	Function: Required for innate immune defense against viruses. Acts downstream of DHX33, DDX58/RIG-I and IFIH1/MDA5, which detect intracellular dsRNA produced during viral replication, to coordinate pathways leading to the activation of NF-kappa-B, IRF3 and IRF7, and to the subsequent induction of antiviral cytokines such as IFN-beta and RANTES (CCL5). Peroxisomal and mitochondrial MAVS act sequentially to create an antiviral cellular state. Upon viral infection, peroxisomal MAVS induces the rapid interferon-independent expression of defense factors that provide short-term protection, whereas mitochondrial MAVS activates an interferon-dependent signaling pathway with delayed kinetics, which amplifies and stabilizes the antiviral response. May activate the same pathways following detection of extracellular dsRNA by TLR3. May protect cells from apoptosis. Subunit Structure: Self-associates and polymerizes (via CARD domains) to form 400 nM long three-stranded helical filaments on mitochondria, filament nucleation requires interaction with DDX58/RIG-I whose CARD domains act as a template for filament assembly. Interacts with DDX58/RIG-I, IFIH1/MDA5, TRAF2, TRAF6 and C1QBP (PubMed:17600090). May interact with IRF3, FADD, RIPK1, CHUK and IKKBK. Interacts with NLRX1. Interaction with NLRX1 requires the CARD domain. Interacts with PSMA7. Interacts with TRAFD1 (By similarity). Interacts (via C-terminus) with PCBP2 in a complex containing MAVS/IPS1, PCBP2 and ITCH. Interacts with CYLD. Interacts with SRC. Interacts with DHX58/LGP2 and IKBE. Interacts with TMEM173/MITA. Interacts with IFIT3 (via N-terminus). Interacts with TBK1 only in the presence of IFIT3. Interacts with MUL1. Interacts with ANKRD17. Interacts with and is cleaved by HCV and hepatitis GB virus B NS3/4A proteases. Interacts with and is cleaved by HHAV protein 3ABC. Interacts with human respiratory syncytial virus (HRSV) NS1 protein; this interaction disrupts MAVS binding to DDX58/RIG-I. Interacts with NDFIP1 (PubMed:23087404). Interacts with SMURF1; the interaction is mediated by NDFIP1 and leads to MAVS ubiquitination and degradation (PubMed:23087404). Interacts with UBXN1; this interaction inhibits MAVS-mediated antiviral pathway (PubMed:23545497). Interacts (via C-terminus) with GPATCH3; the interaction is markedly increased upon viral infection (PubMed:28414768). Directly interacts (via CARD domain) with ATG5 and ATG12, either as ATG5 and ATG12 monomers or as ATG12-ATG5 conjugates (PubMed:17709747). Interacts with DHX33 (via the helicase C-terminal domain) (By similarity). Post-translational Modifications: Ubiquitinated (PubMed:19881509, PubMed:23087404). Undergoes 'Lys-48'-linked polyubiquitination catalyzed by ITCH; ITCH-dependent polyubiquitination is mediated by the interaction with PCBP2 and leads to MAVS/IPS1 proteasomal degradation (PubMed:19881509). Ubiquitinated by RNF125, leading to its degradation by the proteasome (PubMed:17460044). Undergoes 'Lys-48'-linked ubiquitination catalyzed by SMURF1 (PubMed:23087404). Similarity: Both CARD and transmembrane domains are essential for antiviral function. The CARD domain is responsible for interaction with DDX58/RIG-I and IFIH1/MDA5. The transmembrane domain and residues 300-444 are essential for its interaction with DHX58/LGP2.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	330688443
NCBI GeneID	57506
NCBI Accession #	NP_001193420.1
NCBI GenBank Nucleotide #	NM_001206491.1

UniProt Accession #	Q7Z434 ; Q2HWT5 ; Q3I0Y2 ; Q5T7I6 ; Q86VY7 ; Q9H1H3 ; Q9H4Y1 ; A8K6X0 ; B2BD33 ; B2BD34 ; F5H6C8 ; M1P2Z0
Molecular Weight	Observed: 70-75 kDa Predicted: 57 kDa
NCBI Official Full Name	mitochondrial antiviral-signaling protein isoform 2
NCBI Official Synonym Full Names	mitochondrial antiviral signaling protein
NCBI Official Symbol	MAVS
NCBI Official Synonym Symbols	IPS1; VISA; IPS-1; CARDIF
NCBI Protein Information	mitochondrial antiviral-signaling protein
UniProt Protein Name	Mitochondrial antiviral-signaling protein
UniProt Gene Name	MAVS
UniProt Synonym Gene Names	MAVSCurated; Cardif; IPS-1; VISA

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/visa-antibody-immunohistochemistry-western-blot-elisa/323035>