

VISA Antibody

VISA (NT): Virus-induced signaling adapter, mitochondrial antiviral signaling protein, MAVS, CARD adapter inducing interferon-beta, Cardif, IPS-1

CATALOG No.:4053

BACKGROUND:

Two distinct signaling pathways activate the host innate immunity against viral infection. One pathway is reliant on members of the Toll-like receptor (TLR) family while the other uses the RNA helicase RIG-I as a receptor for intracellular viral double-stranded RNA as a trigger for the immune response (1). VISA is a mitochondrial membrane protein that was identified as a critical component in the IFN- β signaling pathways that recruits IRF-3 to RIG-I, leading to its activation and that of NF- κ B (2). VISA is also thought to interact with other components of the innate immune pathway such as the TLR adapter protein TRIF, TRAF2 and TRAF6. VISA also interacts with the IKK α , IKK β and IKK ϵ kinases through its C-terminal region. Cleavage of this region by the Hepatitis C virus (HCV) protease allows HCV to escape the host immune system (3). At least three isoforms of VISA are known to exist.

SOURCE:

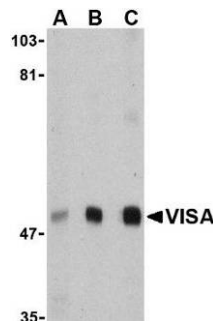
Rabbit polyclonal VISA antibody was raised against a 13 amino acid peptide from near the amino terminus of human VISA (GenBank accession no. NP_065797).

APPLICATION:

VISA antibody can be used for detection of VISA by Western blot at 0.5 – 1 μ g/ml. (Optimal dilution should be determined by user.) A20 cell lysate can be used as positive control. VISA antibody is human, mouse and rat reactive. **For research use only.**

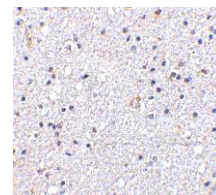
STORAGE:

VISA antibody is supplied as immunoaffinity purified IgG in PBS containing 0.02% sodium azide. Store at 4°C, stable for one year.



Western blot analysis of VISA in A20 cell lysate with VISA antibody at (A) 0.5, (B) 1 and (C) 2 μ g/ml.

Immunohistochemistry of VISA in human brain tissue with VISA antibody at 5 μ g/ml.



RELATED PRODUCTS:

Blocking Peptide, Catalog No. **4053P**.
A20 Cell Lysate, Catalog No. **1288**.
VISA Antibody (IN), Catalog No. **4055**.
IKK α Antibody (C1), Catalog No. **2025**.
IKK β Antibody (C3), Catalog No. **2121**.
IKK ϵ Antibody (CT), Catalog No. **2329**.
IRF-3 Antibody (CT), Catalog No. **3397**.
RIG-I Antibody, Catalog No. **3953**.
TRAF2 Antibody (CT), Catalog No. **3661**.
TRAF6 Antibody, Catalog No. **3129**.
TRIF Antibody, Catalog No. **3173**.

REFERENCES:

1. Seth RB, Sun L, and Chen ZJ. Antiviral innate immunity pathways. *Cell Res*. 2006; 16:141-7.
2. Xu LG, Wang YY, Han KJ, et al. VISA is an adapter protein required for virus-triggered IFN-beta signaling. *Mol. Cell* 2005; 19:727-40.
3. Meylan E, Curran J, Hofman K, et al. Cardif is an adaptor protein in the RIG-I antiviral pathway and is targeted by hepatitis C virus. *Nature* 2005; 1167-72. (08-01D)