

Datasheet: AHP1702

| | |
|----------------------|---------------------|
| Description: | RABBIT ANTI VISA |
| Specificity: | VISA |
| Other names: | MAVS |
| Format: | Purified |
| Product Type: | Polyclonal Antibody |
| Isotype: | Polyclonal IgG |
| Quantity: | 0.1 mg |

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

| | Yes | No | Not Determined | Suggested Dilution |
|--------------------------------|-----|----|----------------|--------------------|
| Immunohistology - Paraffin (1) | ▪ | | | 2.5ug/ml |
| Western Blotting | ▪ | | | 0.5 - 1ug/ml |

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.

| | |
|---------------------------------------|---|
| Target Species | Human |
| Species Cross Reactivity | Reacts with: Mouse, Rat N.B. Antibody reactivity and working conditions may vary between species. |
| Product Form | Purified IgG - liquid |
| Antiserum Preparation | Antisera to human VISA were raised by repeated immunisation of rabbits with highly purified antigen. Purified IgG prepared from whole serum by affinity chromatography. |
| Buffer Solution | Phosphate buffered saline |
| Preservative Stabilisers | 0.02% Sodium Azide (NaN ₃) |
| Approx. Protein Concentrations | IgG concentration 1.0mg/ml |
| Immunogen | A peptide corresponding to a 17 amino acid sequence from near the centre of Human VISA. |

**External Database
Links**

UniProt:

[Q7Z434](#) [Related reagents](#)

Entrez Gene:

[57506](#) MAVS [Related reagents](#)

Synonyms

IPS1, KIAA1271, VISA

Specificity

Rabbit anti VISA antibody recognizes the human Mitochondrial antiviral-signaling protein (MAVS), also known as Virus-induced-signalling-adaptor (VISA), and KIAA1271, VISA is a 540 amino acid outer mitochondrial membrane protein containing a single [CARD domain](#). VISA is an important protein required for innate immune defence against viruses ([Huang et al. 2014](#)).

VISA acts downstream of [DDX58 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). VISA is believed to activate the same pathways following detection of extracellular dsRNA by TLR3 and it has been hypothesized that VISA is involved in the regulation of apoptosis following viral infection ([Lei et al. 2009](#)).

VISA is a ubiquitously expressed protein present in a range of cell types including T-cells, monocytes and epithelial cells, with highest levels in tissues of the heart, skeletal muscle, liver, placenta and in peripheral blood leukocytes. Multiple isoforms of VISA generated by alternative splicing have been identified. Rabbit anti VISA antibody is reactive with full length VISA isoform 1. It does not react with isoforms 2,3,5 or 6, reactivity with isoform 4 is unknown.

**Histology Positive
Control Tissue**

Mouse brain

Western Blotting

AHP1702 detects a band of approximately 56kDa in Rat brain tissue lysate.

Further Reading

1. Seth, R.B., et al. (2006) Antiviral innate immunity pathways. [Cell Res. 16:141-7](#)
2. Xu, L.G. *et al.* (2005) VISA is an adapter protein required for virus-triggered IFN-beta signaling. [Mol Cell. 19 \(6\): 727-40.](#)
3. Meylan E, et al. (2005) Cardif is an adaptor protein in the RIG-I antiviral pathway and is targeted by hepatitis C virus. [Nature 437\(7062\):1167-72.](#)

Storage

Store at +4°C or at -20°C if preferred.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life

18 months from date of despatch.

**Health And Safety
Information**

Material Safety Datasheet documentation #10040 available at:
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR54...) [HRP](#)

Recommended Useful Reagents

[HISTAR DETECTION SYSTEM \(STAR3000A\)](#)

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025C\)](#)

[TidyBlot™ WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

North & South America Tel: +1 800 265 7376
Fax: +1 919 878 3751
Email: antibody_sales_us@bio-rad.com

Worldwide Tel: +44 (0)1865 852 700
Fax: +44 (0)1865 852 739
Email: antibody_sales_uk@bio-rad.com

Europe Tel: +49 (0) 89 8090 95 21
Fax: +49 (0) 89 8090 95 50
Email: antibody_sales_de@bio-rad.com

'M279700:160115'

Printed on 08 May 2018

© 2018 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)