

## Datasheet: AHP1776T

<b>Description:</b>	RABBIT ANTI RIG-I
<b>Specificity:</b>	RIG-I
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	50 µg

### 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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Immunohistology - Paraffin (1)	▪			5.0ug/ml
Western Blotting	▪			0.5 - 1.0ug/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. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

#### Product Form

Purified IgG - liquid

#### Antiserum Preparation

Antisera to human RIG-I 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

<0.1% Sodium Azide (NaN<sub>3</sub>)

## Stabilisers

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**Approx. Protein Concentrations** IgG concentration 1.0mg/ml

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**Immunogen** Human GST-tagged RIG-1 protein.

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## External Database Links

**UniProt:**

[O95786](#)

[Related reagents](#)

**Entrez Gene:**

[23586](#)

DDX58

[Related reagents](#)

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**RRID** AB\_2175703

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**Specificity** **Rabbit anti RIG-I antibody** recognizes human Retinoic acid-inducible gene 1 protein (RIG-I), also known as RIG-1 or DEAD-box protein 58. RIG-I is a receptor found in the cytoplasm that recognizes viral RNA from replicating viruses in infected cells. Upon activation with intracellular RNA, a cascade is triggered resulting in the activation of NF-kappa-B, and the eventual induction of antiviral cytokines such as IFN-beta and RANTES. RIG-I is essential for the production of interferons in response to RNA viruses and as such play a key role in innate immunity.

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**Histology Positive Control Tissue** Human heart

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**Western Blotting** AHP1776T detects a band of approximately 84 kDa in C2C12cell lysate.

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**References**

1. Satoh, T. *et al.* (2014) Tumor microenvironment and RIG-I signaling molecules in Epstein Barr virus-positive and -negative classical Hodgkin lymphoma of the elderly. [J Clin Exp Hematop. 54 \(1\): 75-84.](#)

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**Further Reading**

1. Akira, S. *et al.* (2006) Pathogen recognition and innate immunity. [Cell. 124 \(4\): 783-801.](#)
2. Yoneyama, M. *et al.* (2004) The RNA helicase RIG-I has an essential function in double-stranded RNA-induced innate antiviral responses. [Nat Immunol. 5 \(7\): 730-7.](#)
3. Sharma S, et al (2003) Triggering the interferon antiviral response through an IKK-related pathway [Science 300:1148-51.](#)
4. Alexopoulou, L. *et al.* (2001) Recognition of double-stranded RNA and activation of NF-kappaB by Toll-like receptor 3. [Nature. 413 \(6857\): 732-8.](#)

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**Storage** This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information**      Material Safety Datasheet documentation #10040 available at:  
<https://www.bio-rad-antibodies.com/SDS/AHP1776T>  
10040

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**Regulatory**                      For research purposes only

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## Related Products

### Recommended Useful Reagents

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

**North & South**      Tel: +1 800 265 7376

**America**              Fax: +1 919 878 3751

                            Email: [antibody\\_sales\\_us@bio-rad.com](mailto: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](mailto: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](mailto:antibody_sales_de@bio-rad.com)

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)  
'M389165:210806'

**Printed on 26 Sep 2023**

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