

## Datasheet: AHP1776

<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>	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](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 ion exchange chromatography.

#### Buffer Solution

Phosphate buffered saline

<b>Preservative Stabilisers</b>	0.02% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0mg/ml
<b>Immunogen</b>	Human GST-tagged RIG-1 protein.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">O95786</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">23586</a> DDX58    <a href="#">Related reagents</a></p>
<b>RRID</b>	AB_2175702
<b>Specificity</b>	<b>Rabbit anti RIG-I antibody</b> 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.
<b>Histology Positive Control Tissue</b>	Human heart
<b>Western Blotting</b>	AHP1776 detects a band of approximately 84 kDa in C2C12cell lysate.
<b>References</b>	1. Satoh, T. <i>et al.</i> (2014) Tumor microenvironment and RIG-I signaling molecules in Epstein Barr virus-positive and -negative classical Hodgkin lymphoma of the elderly. <a href="#">J Clin Exp Hematop. 54 (1): 75-84.</a>
<b>Further Reading</b>	<ol style="list-style-type: none"> <li>1. Akira, S. <i>et al.</i> (2006) Pathogen recognition and innate immunity. <a href="#">Cell. 124 (4): 783-801.</a></li> <li>2. Yoneyama, M. <i>et al.</i> (2004) The RNA helicase RIG-I has an essential function in double-stranded RNA-induced innate antiviral responses. <a href="#">Nat Immunol. 5 (7): 730-7.</a></li> <li>3. Sharma S, et al (2003) Triggering the interferon antiviral response through an IKK-related pathway <a href="#">Science 300:1148-51.</a></li> <li>4. Alexopoulou, L. <i>et al.</i> (2001) Recognition of double-stranded RNA and activation of NF-kappaB by Toll-like receptor 3. <a href="#">Nature. 413 (6857): 732-8.</a></li> </ol>
<b>Storage</b>	<p>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.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>

**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/AHP1776>  
10040

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**Regulatory** For research purposes only

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## Related Products

### Recommended Useful Reagents

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

**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**

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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://bio-rad-antibodies.com/datasheets)  
'M382826:210513'

**Printed on 18 Jan 2024**

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