

Datasheet: AHP1776

**BATCH NUMBER 157978**

<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>	<p><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.</p>
<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>	<p>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></p>
<b>Further Reading</b>	<p>1. Akira, S. <i>et al.</i> (2006) Pathogen recognition and innate immunity. <a href="#">Cell. 124 (4): 783-801.</a></p> <p>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></p> <p>3. Sharma S, et al (2003) Triggering the interferon antiviral response through an IKK-related pathway <a href="#">Science 300:1148-51.</a></p> <p>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></p>
<b>Storage</b>	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
<b>Guarantee</b>	12 months from date of despatch

**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

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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)

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