

Datasheet: AHP1776

BATCH NUMBER 150418

Description:	RABBIT ANTI RIG-I
Specificity:	RIG-I
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)	▪			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

Preservative Stabilisers	0.02% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	Human GST-tagged RIG-1 protein.
External Database Links	<p>UniProt: O95786 Related reagents</p> <p>Entrez Gene: 23586 DDX58 Related reagents</p>
RRID	AB_2175702
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.
Histology Positive Control Tissue	Human heart
Western Blotting	AHP1776 detects a band of approximately 84 kDa in C2C12cell lysate.
References	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. J Clin Exp Hematop. 54 (1): 75-84.
Further Reading	<ol style="list-style-type: none"> 1. Akira, S. <i>et al.</i> (2006) Pathogen recognition and innate immunity. Cell. 124 (4): 783-801. 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. 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. <i>et al.</i> (2001) Recognition of double-stranded RNA and activation of NF-kappaB by Toll-like receptor 3. Nature. 413 (6857): 732-8.
Storage	<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>
Guarantee	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

Regulatory

For research purposes only

Related Products

Recommended Useful Reagents

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

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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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