

Datasheet: AHP1776

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.
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 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	UniProt: O95786 Related reagents

Entrez Gene:[23586](#) DDX58 [Related reagents](#)

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	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	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. 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 \(STAR3000A\)](#)

[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

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