

## Datasheet: AHP2065

<b>Description:</b>	GOAT ANTI HUMAN IFIH1 (N-TERMINAL)
<b>Specificity:</b>	IFIH1 (N-TERMINAL)
<b>Other names:</b>	MDA5
<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
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin (1)	▪			10ug/ml
ELISA	▪			1/32000
Immunoprecipitation			▪	
Western Blotting			▪	

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. Tris/EDTA buffer pH 9.0 is recommended for this purpose.**

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Antiserum Preparation</b>	Antiserum to human IFIH1 (NT) was raised by repeated immunisation of goats with highly purified antigen. Purified IgG was prepared by affinity chromatography.
<b>Buffer Solution</b>	TRIS buffered saline
<b>Preservative</b>	0.02% Sodium Azide (NaN <sub>3</sub> )
<b>Stabilisers</b>	0.5% Bovine Serum Albumin

<b>Approx. Protein Concentrations</b>	IgG concentration 0.5mg/ml
<b>Immunogen</b>	Synthetic peptide sequence SNGYSTDENFRYL-C from the N-Terminal region of IFIH1 (NP_071451.2).
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">Q9BYX4</a>   <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">64135</a>   IFIH1   <a href="#">Related reagents</a></p>
<b>Synonyms</b>	MDA5, RH116
<b>RRID</b>	AB_2121927
<b>Specificity</b>	<p><b>Goat anti Human IFI1 antibody</b> recognizes human Interferon-induced helicase C domain-containing protein 1, also known as IFIH1, Clinically amyopathic dermatomyositis autoantigen 140 kDa, CADM-140 autoantigen, Helicase with 2 CARD domains, Helicard, Interferon-induced with helicase C domain protein 1, Melanoma differentiation-associated protein 5, MDA-5, Murabutide down-regulated protein, RIG-I-like receptor 2, RLR-2 or RNA helicase-DEAD box protein 116.</p> <p>Variations in the IFIH1 gene affect susceptibility to Insulin dependent diabetes mellitus 19 (<a href="#">IDDM19</a>), a multifactorial disorder of glucose homeostasis with a susceptibility to ketoacidosis (<a href="#">Smyth et al. 2006</a>). Mutations in the IFIH1 gene can lead to the development of Aicardi-Goutieres syndrome 7 (<a href="#">AGS7</a>) a disease characterised by cerebral atrophy, leukoencephalopathy, intracranial calcifications, chronic cerebrospinal fluid (CSF) lymphocytosis, increased CSF alpha-interferon, and negative serologic investigations for common prenatal infection (<a href="#">Oda et al. 2014</a>). Mutations in the IFIH1 gene may also lead to the development of Singleton-Merten syndrome 1 (<a href="#">SGMRT1</a>), a disease featuring aortic calcification, dental abnormalities, osteopenia and acro-osteolysis (<a href="#">Rutsch et al. 2015</a>).</p>
<b>Histology Positive Control Tissue</b>	Human pancreas
<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>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10058 available at: <a href="https://www.bio-rad-antibodies.com/SDS/AHP2065">https://www.bio-rad-antibodies.com/SDS/AHP2065</a> 10058

## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Goat IgG (Fc) (STAR122...) [FITC](#), [HRP](#)

### 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://bio-rad-antibodies.com/datasheets)

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