

## Datasheet: AHP1180

<b>Description:</b>	RABBIT ANTI IRF7 (C-TERMINAL)
<b>Specificity:</b>	IRF7 (C-TERMINAL)
<b>Other names:</b>	INTERFERON REGULATORY FACTOR 7
<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			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting	▪			1.0 - 2.0ug/ml

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Human
<b>Species Cross Reactivity</b>	Reacts with: Mouse, Rat <b>N.B.</b> Antibody reactivity and working conditions may vary between species.
<b>Product Form</b>	Purified IgG - liquid
<b>Antiserum Preparation</b>	Antisera to human IRF7 were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG prepared by affinity chromatography.
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.02% Sodium Azide
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0mg/ml
<b>Immunogen</b>	14 amino acid peptide sequence near the carboxy terminus of human IRF7.

**External Database  
Links**

**UniProt:**

[Q92985](#)   [Related reagents](#)

**Entrez Gene:**

[3665](#)   IRF7   [Related reagents](#)

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**Specificity**

**Rabbit anti IRF7 antibody** detects an epitope within the C-terminal (CT) of human interferon regulatory factor 7 (IRF7), a ~54 kDa transcriptional activator of type I interferons (IFN $\alpha$ /beta) in response to local and systemic viral infection. IRF7 is mostly expressed by plasmacytoid dendritic cells (pDC), which differentiate in response to IFNs and virus infection. This then stabilizes the IRF7 protein, in turn leading to increased IFN production.

Multiple IRF7 transcript variants have been identified.

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**Western Blotting**

AHP1180 detects a band of approximately 51kDa in 293 whole cell lysate.

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**References**

1. Rautela, J. *et al.* (2015) Loss of Host Type-I IFN Signaling Accelerates Metastasis and Impairs NK-cell Antitumor Function in Multiple Models of Breast Cancer. [Cancer Immunol Res. 3 \(11\): 1207-17.](#)
2. Saitoh, S.I. *et al.* (2017) TLR7 mediated viral recognition results in focal type I interferon secretion by dendritic cells. [Nat Commun. 8 \(1\): 1592.](#)

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**Further Reading**

1. Ning, S. *et al.* (2005) Regulation of the transcriptional activity of the IRF7 promoter by a pathway independent of interferon signaling. [J Biol Chem. 280 \(13\): 12262-70.](#)
2. Prakash, A. & Levy, D.E. (2006) Regulation of IRF7 through cell type-specific protein stability. [Biochem Biophys Res Commun. 342 \(1\): 50-6.](#)

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**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. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Shelf Life**

18 months from date of despatch.

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**Health And Safety  
Information**

Material Safety Datasheet documentation #10040 available at:  
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Secondary Antibodies

- Sheep Anti Rabbit IgG (STAR34...)   [FITC](#)  
Sheep Anti Rabbit IgG (STAR35...)   [RPE](#)  
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)  
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)  
Sheep Anti Rabbit IgG (2AB02...)   [Biotin](#)  
Sheep Anti Rabbit IgG (STAR36...)   [DyLight®488](#), [DyLight®549](#), [DyLight®649](#),  
[DyLight®680](#), [DyLight®800](#)

## 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)

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