Datasheet: AHP1180T

Description:	RABBIT ANTI IRF7 (C-TERMINAL)
Specificity:	IRF7 (C-TERMINAL)
Other names:	INTERFERON REGULATORY FACTOR 7
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	50 µg

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
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.

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 IRF7 were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG prepared by affinity chromatography.
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.02% Sodium Azide
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	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
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 (IFNalpha/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.
Western Blotting	AHP1180 detects a band of approximately 51kDa in 293 whole cell lysate.
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.
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.
Storage	Store at +4^{o}C or at -20^{o}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.
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 (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

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