

Rabbit anti-Rat Interferon- α Receptor, Type I, Subunit I (Ser535,539) Polyclonal Antibody | anti-IFNAR1 antibody

Anti-Phospho-Ser535,539 Interferon- α Receptor, Type I, Subunit I

CATALOG # AAA14231	HOST Rabbit	REACTIVITY Rat	APPLICATIONS Western Blot, Immunohistochemistry
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PRODUCT SYNONYMS

Interferon- α Receptor; Type I; Subunit I (Ser535; 539); Polyclonal Antibody; Anti-Phospho-Ser535; 539 Interferon- α Receptor; Subunit I; anti-IFNAR1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Rat
Clonality	Polyclonal
Specificity	Specific for IFNAR1 protein phosphorylated at Ser535,539. Note: the molecular weight of the IFNAR1 varies with cell line (different levels of glycosylation) in 293 and HeLa Cells; the mature form is ~110 - 130k.
Purity/Purification	Affinity Purified (Prepared from rabbit serum by affinity purification via sequential chromatography on phospho- and dephosphopeptide affinity columns.)
Form/Format	100 ul in 10 mM HEPES (pH 7.5), 150 mM NaCl, 100 ug per ml BSA and 50% glycerol. Adequate amount of material to conduct 10-mini Western Blots
Sequence Length	557
Applicable Applications for anti-IFNAR1 antibody	WB (Western Blot), IHC (Immunohistochemistry)
Application Notes	Quality Control: Western blots performed on each lot. WB: 1:1000 IHC: 1:1000
Antigen	Phosphopeptide corresponding to amino acid residues surrounding the phospho-Ser535,539 of human interferon- α receptor, type I, subunit I (IFNAR1).
Immunogen Information	Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser535/539 conjugated to KLH
Immunogen Species	Human
Reactivity Assumed Based on 100% Sequence Homology	Bovine, canine, human, mouse, non-human primates and sheep
Species Reactivity Note	The antibody has been directly tested for reactivity in Western blots with rat tissue. It is anticipated that the antibody will react with bovine, canine, human, mouse, non-human primates and sheep based on the fact that these species have 100% homology with the amino acid sequence used as antigen.
Biological Significance	Interferons are widely used therapeutic agents because of their anti tumor and antiviral effects and because of their modulatory effects on the immune system (Biron, 2001; Kirkwood, 2002). These cytokines produce their effects by binding to the Type 1 Interferon- α Receptor (IFNAR1). Down regulation of this receptor plays a key role in determining the magnitude and duration of cytokine signaling. This down regulation is thought to be influenced by phosphorylation of Serine 535 and 539 in the IFNAR1 (Kumar et al., 2003).
Preparation and Storage	For long term storage -20 degree C is recommended. Stable at -20 degree C for at least 1 year.

IMAGES



Application Data

ADDITIONAL INFORMATION

Related Product Information for anti-IFNAR1 antibody	Affinity purified rabbit polyclonal antibody
References	• Biron CA (2001) Interferons alpha and beta as immune regulators--a new look. Immunity 14:661-664. • Kirkwood J (2002) Cancer immunotherapy: the interferon-alpha experience. Semin Oncol 29:18-26. • Kumar KG, Tang W, Ravindranath AK, Clark WA, Croze E, Fuchs SY (2003) SCF(HOS) ubiquitin ligase mediates the ligand-induced down-regulation of the interferon-alpha receptor. EMBO J 22:5480-5490. • K. G. Suresh Kumar, John J. Krolewski, and Serge Y. Fuchs (2004) Phosphorylation and Specific Ubiquitin Acceptor Sites Are Required for Ubiquitination and Degradation of the IFNAR1 Subunit of Type I Interferon Receptor. J. Biol. Chem., Nov 2004; 279: 46614 - 46620.

NCBI AND UNIPROT INFORMATION

NCBI GI #	46488932
NCBI GeneID	3454
NCBI Accession #	NP_000620.2
NCBI GenBank Nucleotide #	NM_000629.2
UniProt Accession #	P17181; Q53GW9; Q53H11; Q6PKD7; Q7M4L2; Q8WTZ2; B2R6L9; D3DSF0
Molecular Weight	110-130
NCBI Official Full Name	interferon alpha/beta receptor 1
NCBI Official Synonym Full Names	interferon (alpha, beta and omega) receptor 1
NCBI Official Symbol	IFNAR1
NCBI Official Synonym Symbols	AVP; IFRC; IFNAR; IFNBR; IFN-alpha-REC
NCBI Protein Information	interferon alpha/beta receptor 1; CRF2-1; IFN-R-1; IFN-alpha/beta receptor 1; interferon-beta receptor 1; beta-type antiviral protein; alpha-type antiviral protein; type I interferon receptor 1; cytokine receptor class-II member 1; cytokine receptor family 2 member 1; interferon-alpha/beta receptor alpha chain
UniProt Protein Name	Interferon alpha/beta receptor 1
UniProt Gene Name	IFNAR1
UniProt Synonym Gene Names	IFNAR; IFN-R-1; IFN-alpha/beta receptor 1; CRF2-1
UniProt Entry Name	INAR1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.