

Phospho-Ser535,539 Interferon- α Receptor, Type I, Subunit I Antibody
Affinity purified rabbit polyclonal antibody
Catalog # AN1064

Specification

Phospho-Ser535,539 Interferon- α Receptor, Type I, Subunit I Antibody - Product Information

Application	WB
Primary Accession	P17181
Reactivity	Rat
Predicted	Bovine, Human, Mouse, Monkey
Host	Rabbit
Clonality	polyclonal
Calculated MW	110-130 KDa

Phospho-Ser535,539 Interferon- α Receptor, Type I, Subunit I Antibody - Additional Information

Gene ID	3454
Gene Name	IFNAR1

Other Names

Interferon alpha/beta receptor 1, IFN-R-1, IFN-alpha/beta receptor 1, Cytokine receptor class-II member 1, Cytokine receptor family 2 member 1, CRF2-1, Type I interferon receptor 1, IFNAR1, IFNAR

Target/Specificity

Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser535/539 conjugated to KLH.

Dilution

WB~~ 1:1000

Format

Prepared from rabbit serum by affinity purification via sequential chromatography on phospho- and dephosphopeptide affinity columns.

Antibody 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.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Phospho-Ser535,539 Interferon- α Receptor, Type I, Subunit I Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Shipping

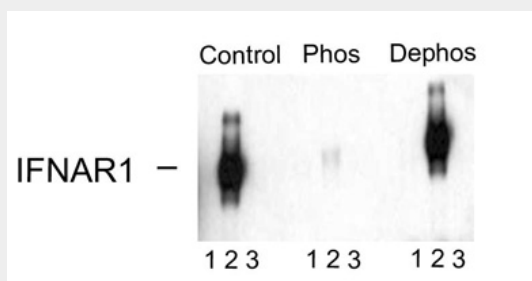
Blue Ice

Phospho-Ser535,539 Interferon- α Receptor, Type I, Subunit I Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Phospho-Ser535,539 Interferon- α Receptor, Type I, Subunit I Antibody - Images



Western blot of immunoprecipitates from HEK 293 cells transfected with 1. Mock, 2. IFNAR1 WT, and 3. IFNAR1 S535A and S539A mutants showing specific immunolabeling of the ~110k to ~130k IFNAR1 WT. The immunolabeling is absent in IFNAR1 Ser535 and Ser539 mutants (Control). The immunolabeling is blocked by the phosphopeptide (Phos) used as the antigen but not by the corresponding dephosphopeptide (Dephos).

Phospho-Ser535,539 Interferon- α Receptor, Type I, Subunit I Antibody - Background

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).

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