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 Reactivity
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,

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

Kumar KG, Tang W, Ravindranath AK, Clark WA, Croze E, Fuchs SY (2003) SCF(HOS) ubiquitin ligase mediates the
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