Rabbit polyclonal antibody to IFNAR1 (Interferon Receptor Type 1, Subunit 1), phopho-Ser 535, 539

Catalog Number: NB300-258

Background: Interferons are widely used therapeutic agents because of their anti-tumor and anti-viral effects and because of their modulatory effects on the immune system. These cytokines produce their effects by binding to the Type 1 Interferon- 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.

Host: Rabbit

Research Areas: Neuroscience, Phospho-Specific

Immunogen: Synthetic phosphopeptide corresponding to amino acid residues surrounding the human phospho-Ser 535, 539 type 1 interferon receptor subunit 1 (IFNAR1). The antigen sequence used is virtually identical to the bovine, mouse, and rat forms of IFNAR1.

Specificity: Specific for IFNAR1 phosphorylated at Ser535/539.

Phosphorylated: ppSer535, 539

Species Reactivity: Human. Other species have not been tested.

Uses: Antibody dilutions and tissue load should be based on tissue type and expected phosphorylation state expected expression level. Initial recommended range of dilutions: 1:1000.

Personally tested under ideal conditions:
DB: 1:1000
WB: 1:1000 (human brain extracts)
IHC: Not Tested
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 - 130 kDa.
* Other applications have not been tested.

Dilutions: Suggested working dilutions *
Western Blot, DB
* Investigator should determine optimal working dilutions.

Packaging: 0.1 ml in 10mM HEPES (pH 7.5), 150mM NaCl, 0.1 mg/ml BSA and 50% glycerol.
Sequential chromatography on phospho- and non-phosphopeptide affinity columns. Adequate amount of material to conduct 10-mini Western blots.

Storage: For long term storage -80 degrees C is recommended. Short term storage at -20 degrees C is acceptable as aliquots are in the presence of 50% glycerol. Stock solutions are stable for a minimum of 1 year at -20 degrees C.

Limitations: This product is for research use only and is not approved for use in humans or in clinical diagnosis. This product is guaranteed for 6 months from date of receipt.


Image(s)

Detection of Flag immunoprecipitates from HEK 293 cells transfected with 1. Mock, 2. IFNAR1 WT and 3. IFNAR1 S535A and S539A mutants. Detection with NB 300-258 is absent in the IFNAR1 Ser535 and Ser539 mutants. The labeling is blocked by the phosphopeptide used as antigen but not by the dephospho form of this peptide.