

Datasheet for 600-401-D67

## Interferon alpha Receptor Type I phospho S535/phospho S539 Antibody

### Overview

<b>Description:</b>	Anti-Interferon alpha Receptor Type I pS535/pS539 (RABBIT) Antibody - 600-401-D67
<b>Item No.:</b>	600-401-D67
<b>Size:</b>	100 µL
<b>Applications:</b>	IHC, WB
<b>Reactivity:</b>	Human
<b>Host Species:</b>	Rabbit

### Product Details

<b>Background:</b>	Interferon alpha Receptor Type I pS535/pS539 Antibody detects Interferon alpha Receptor Type I phosphorylated at positions S535/S539. Interferons are widely used therapeutic agents because of their anti tumor and antiviral effects and because of their modulatory effects on the immune system. These cytokines produce their effects by binding to the Type 1 Interferon- $\alpha$ 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. Therefore, Interferon alpha Receptor Type I phospho S535/phospho S539 antibody is ideal for investigators involved in Cell Signaling, Virology, Immunology and Cancer Research.
<b>Synonyms:</b>	Interferon alpha/beta receptor 1, Cytokine receptor class-II member 1, Cytokine receptor family 2 member 1, CRF2-1, Type I interferon receptor 1
<b>Host Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>Format:</b>	IgG

### Target Details

<b>Gene Name:</b>	IFNAR1
<b>Reactivity:</b>	Human
<b>PTM Specificity:</b>	Phosphorylation

<b>Immunogen Type:</b>	Conjugated Peptide
<b>Immunogen:</b>	Anti-Interferon alpha Receptor Type I pS535/pS539 Antibody was produced by repeated immunizations with a synthetic phospho-peptide corresponding to amino acid residues surrounding Ser535/539.
<b>Purity/Specificity:</b>	Anti-Interferon alpha Receptor Type I pS535/pS539 Antibody is directed against human Interferon alpha Receptor Type I phosphorylated at positions S535/S539. The antibody was prepared from monospecific antiserum by immunoaffinity chromatography using phospho peptide coupled to agarose beads followed by solid phase adsorption(s) against non-phospho peptide and non-specific peptide to remove any unwanted reactivities. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Rabbit Serum. Expect reactivity with the following species based on sequence homology: bovine, canine, human, mouse, non-human primates, rat, and sheep. Cross reactivity with Interferon alpha Receptor Type I phospho S535/phospho S539 antibody from other species has not been determined.
<b>Relevant Links:</b>	<ul style="list-style-type: none"><li>• <a href="#">UniProtKB - P17181</a></li><li>• <a href="#">GenelD - 3454</a></li><li>• <a href="#">UniProtKB - P17181.3</a></li></ul>

## Application Details

<b>Tested Applications:</b>	IHC, WB
<b>Application Note:</b>	Anti-Interferon alpha Receptor Type I pS535/pS539 (Rabbit) antibody is suitable for use in Western Blotting and IHC. Specific conditions for reactivity should be optimized by the end user. The molecular weight of the IFNAR1 varies with cell line due to different levels of glycosylation in 293 and HeLa Cells; the mature form is approximately 110-130 kDa in size.
<b>Assay Dilutions:</b>	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
<b>IHC:</b>	1:1000
<b>WB:</b>	1:1000

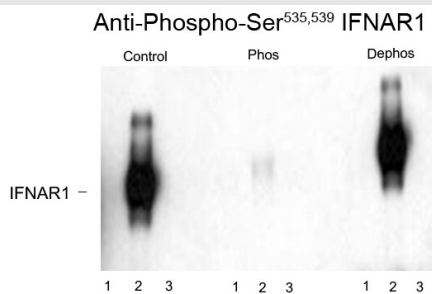
## Formulation

<b>Physical State:</b>	Liquid
<b>Buffer:</b>	0.01 M HEPES, 0.15 M Sodium Chloride, pH 7.5
<b>Stabilizer:</b>	0.1 mg/ml Bovine Serum Albumin (BSA) - IgG and Protease free, 50% (v/v) Glycerol

## Shipping & Handling

<b>Shipping Condition:</b>	Dry Ice
<b>Storage Condition:</b>	Store vial at -20° C prior to opening. This product is stable at 4° C as an undiluted liquid. For extended storage, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Dilute only prior to immediate use.
<b>Expiration:</b>	Expiration date is one (1) year from date of receipt.

## Images



Western blot of immunoprecipitates from HEK 293 cells transfected with: 1. Mock 2. IFNAR1 WT and 3. IFNAR1 Ser<sup>535</sup>Arg and Ser<sup>539</sup>Arg mutants. The immunolabeling is absent in the IFNAR1 Ser<sup>535</sup> and Ser<sup>539</sup> mutants. The labeling is blocked by the phosphopeptide (Phos) used as the antigen but not by the dephosphopeptide (Dephos).

### Western Blot

Western Blot of immunoprecipitation of Rabbit anti-Interferon alpha Receptor Type I pS535/pS539 antibody. Lane 1: HEK 293 cells transfected with mock. Lane 2: HEK 293 cells transfected with IFNAR1 WT. Lane 3: HEK 293 cells transfected with IFNAR1 S535A and S539A mutants. Load: 10 µg per lane. Left Panel: control. Center Panel: blocked by the phosphopeptide. Right Panel: dephosphopeptide. Primary antibody: Interferon alpha Receptor Type I pS535/pS539 antibody at 1:400 for overnight at 4°C. Secondary antibody: IRDye800™ rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: ~110kDa to ~130kDa for IFNAR1 WT. Other band(s): none.

## Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.