

# Anti-IFNAR1 Antibody [SR45-08]

ET1602-37



<b>Product Type:</b>	Recombinant Rabbit monoclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human, Mouse, Rat
<b>Applications:</b>	WB, IHC-P, IF-Cell, FC
<b>Molecular Wt:</b>	Predicted band size: 64 kDa
<b>Clone number:</b>	SR45-08

**Description:** The type I interferons (IFNs),  $\alpha$  and  $\beta$ , are a group of structurally and functionally related proteins that are induced by either viruses or double stranded RNA and defined by their ability to confer an antiviral state in cells. The  $\alpha$  and  $\beta$  IFNs appear to compete with one another for binding to a common cell surface receptor, while immune IFN (IFN $\gamma$ ) binds to a distinct receptor. The latter protein, IFN- $\alpha$ R, is only weakly responsive to type I interferons in contrast to IFN- $\alpha$ / $\beta$ R, which binds to and responds effectively to IFN- $\beta$  and to several of the IFN-? subtypes. Moreover, IFN- $\alpha$ / $\beta$ R is physically associated with the cytoplasmic tyrosine kinase JAK1 and thus, in addition to ligand binding, appears to be functionally involved in signal transduction. IFN- $\alpha$ R1 is a receptor for IFN- $\alpha$ / $\beta$  and is present as the full chain (IFN- $\alpha$ R1a) and as a splice-variant (IFN- $\alpha$ R1). The IFN- $\gamma$  receptor complex consists of an alpha subunit (IFN- $\gamma$ R $\alpha$ ) and a beta subunit that is 332 amino acids in length (mouse) and 337 amino acids in length (human).

**Immunogen:** Synthetic peptide within Human IFNAR1 aa 508-557 / 557.

**Positive control:** 293T cell lysate, HeLa cell lysate, Jurkat cell lysate, K-562 cell lysate, human tonsil tissue, rat brain tissue, mouse brain tissue, Jurkat.

**Subcellular location:** Cell membrane, Late endosome, Lysosome.

**Database links:** SwissProt: P17181 Human | P33896 Mouse | D3ZDS9 Rat

## Recommended Dilutions:

<b>WB</b>	1:1,000-1:2,000
<b>IHC-P</b>	1:50-1:200
<b>IF-Cell</b>	1:100
<b>FC</b>	1:50

**Storage Buffer:** 1\*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

**Storage Instruction:** Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

**Purity:** Protein A affinity purified.

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Orders:0086-571-88062880

Technical:0086-571-89986345

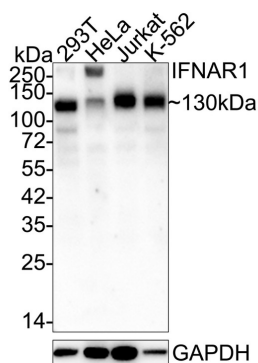
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## Images

**Fig1:** Western blot analysis of IFNAR1 on different lysates with Rabbit anti-IFNAR1 antibody (ET1602-37) at 1/1,000 dilution.

Lane 1: 293T cell lysate  
Lane 2: HeLa cell lysate  
Lane 3: Jurkat cell lysate  
Lane 4: K-562 cell lysate



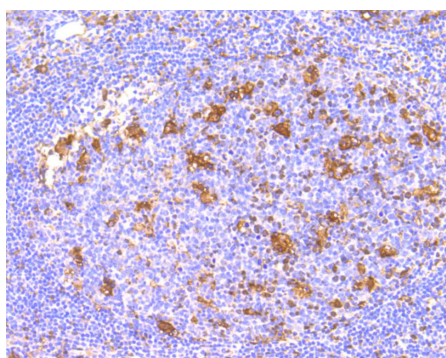
Lysates/proteins at 40 µg/Lane.

Predicted band size: 64 kDa  
Observed band size: 130 kDa

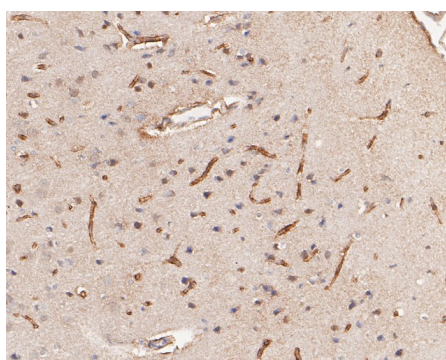
Exposure time: 1 minute 40 seconds; ECL: K1802;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (ET1602-37) at 1/1,000 dilution was used in 5% NFDM/TBST at 4° overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.



**Fig2:** Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-IFNAR1 antibody. The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 5% BSA for 30 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (ET1602-37, 1/50) for 30 minutes at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



**Fig3:** Immunohistochemical analysis of paraffin-embedded rat brain tissue using anti-IFNAR1 antibody. The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 5% BSA for 30 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (ET1602-37, 1/200) for 30 minutes at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

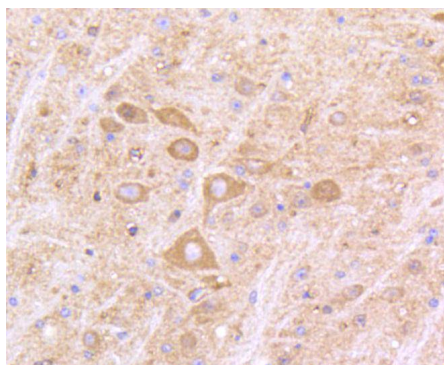
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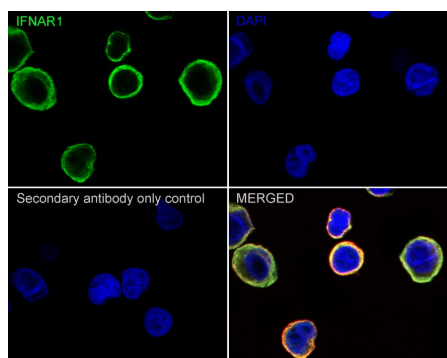
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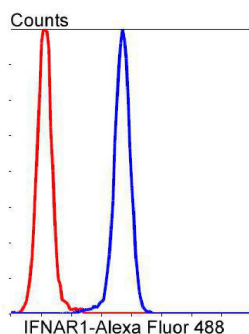
**Fig4:** Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-IFNAR1 antibody. The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 5% BSA for 30 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (ET1602-37, 1/50) for 30 minutes at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

**Fig5:** Immunocytochemistry analysis of Jurkat cells labeling IFNAR1 with Rabbit anti-IFNAR1 antibody (ET1602-37) at 1/100 dilution.



Cells were fixed in 4% paraformaldehyde for 20 minutes at room temperature, permeabilized with 0.1% Triton X-100 in PBS for 5 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Rabbit anti-IFNAR1 antibody (ET1602-37) at 1/100 dilution in 1% BSA in PBST overnight at 4 °C. Goat Anti-Rabbit IgG H&L (iFluor™ 488, HA1121) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.

Beta tubulin (M1305-2, red) was stained at 1/100 dilution overnight at +4°C. Goat Anti-Mouse IgG H&L (iFluor™ 594, HA1126) was used as the secondary antibody at 1/1,000 dilution.



**Fig6:** Flow cytometric analysis of IFNAR1 was done on Jurkat cells. The cells were fixed, permeabilized and stained with the primary antibody (ET1602-37, 1/50) (blue). After incubation of the primary antibody at room temperature for an hour, the cells were stained with a Alexa Fluor®488 conjugate-Goat anti-Rabbit IgG Secondary antibody at 1/1,000 dilution for 30 minutes. Unlabelled sample was used as a control (cells without incubation with primary antibody; red).

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**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

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### Background References

1. Chandra PK et al. Impaired expression of type I and type II interferon receptors in HCV-associated chronic liver disease and liver cirrhosis. PLoS One 9:e108616 (2014).
2. Wan S et al. Chemotherapeutics and radiation stimulate MHC class I expression through elevated interferon-beta signaling in breast cancer cells. PLoS One 7:e32542 (2012).

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