

# Anti-IFNGR2 Antibody

## HA500363



<b>Product Type:</b>	Rabbit polyclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human, Mouse, Rat
<b>Applications:</b>	WB, IF-Cell
<b>Molecular Wt:</b>	Predicted band size: 38 kDa

**Description:** Interferon gamma receptor 2 also known as IFN- $\gamma$ R2 is a protein which in humans is encoded by the IFNGR2 gene. This gene (IFNGR2) encodes the non-ligand-binding beta chain of the gamma interferon receptor. Human interferon-gamma receptor is a multimer of two IFN- $\gamma$ R1 chains (encoded by IFNGR1) and two IFN- $\gamma$ R2 chains. Associates with IFNGR1 to form a receptor for the cytokine interferon gamma (IFNG). Ligand binding stimulates activation of the JAK/STAT signaling pathway. Required for signal transduction in contrast to other receptor subunit responsible for ligand binding. Defects in IFNGR2 are a cause of autosomal recessive mendelian susceptibility to mycobacterial disease (MSMD), also known as familial disseminated atypical mycobacterial infection. All known mutations in IFNGR2 are collected in the IFNGR2 mutation database.

**Immunogen:** Synthetic peptide within human INGR2 22-71.

**Positive control:** Jurkat cell lysate, Hela cell lysate, A431 cell lysate, human skeletal muscle tissue lysates, SH-SY5Y.

**Subcellular location:** Endoplasmic reticulum, Plasma membrane, Golgi apparatus.

**Database links:** SwissProt: P38484 Human  
Entrez Gene: 15980 Mouse | 360697 Rat

**Recommended Dilutions:**

<b>WB</b>	1:500
<b>IF-Cell</b>	1:200

**Storage Buffer:** PBS (pH7.4), 0.1% 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:** Immunogen affinity purified.

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Orders:0086-571-88062880

Technical:0086-571-89986345

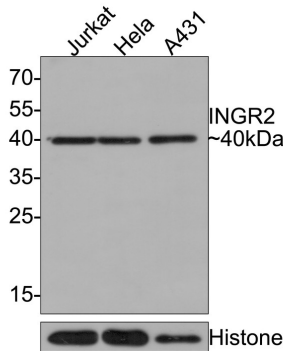
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## Images

**Fig1:** Western blot analysis of IFNGR2 on different lysates with Rabbit anti-IFNGR2 antibody (HA500363) at 1/500 dilution.

Lane 1: Jurkat cell lysate  
Lane 2: HeLa cell lysate  
Lane 3: A431 cell lysate



Lysates/proteins at 10 µg/Lane.

Predicted band size: 38 kDa  
Observed band size: 40 kDa

Exposure time: 1 minute;

15% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDN/TBST for 1 hour at room temperature. The primary antibody (HA500363) at 1/500 dilution was used in 5% NFDN/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:300,000 dilution was used for 1 hour at room temperature.

**Fig2:** Western blot analysis of IFNGR2 on human skeletal muscle tissue lysates with Rabbit anti-IFNGR2 antibody (HA500363) at 1/500 dilution.

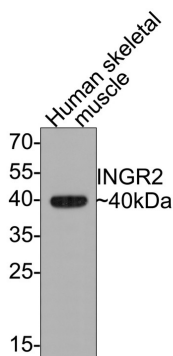
Lysates/proteins at 20 µg/Lane.

Predicted band size: 38 kDa  
Observed band size: 40 kDa

Exposure time: 1 minute;

15% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDN/TBST for 1 hour at room temperature. The primary antibody (HA500363) at 1/500 dilution was used in 5% NFDN/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/300,000 dilution was used for 1 hour at room temperature.



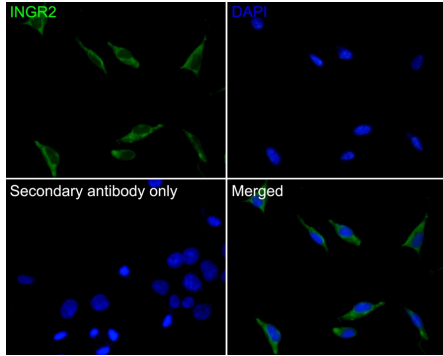
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**Fig3:** Immunocytochemistry analysis of SH-SY5Y cells labeling IFNGR2 with Rabbit anti-IFNGR2 antibody (HA500363) at 1/200 dilution.

Cells were fixed in 4% paraformaldehyde for 10 minutes at 37 °C, permeabilized with 0.05% Triton X-100 in PBS for 20 minutes, and then blocked with 2% negative goat serum for 30 minutes at room temperature. Cells were then incubated with Rabbit anti-IFNGR2 antibody (HA500363) at 1/200 dilution in 2% negative goat serum 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.

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

### Background References

1. Kotenko S.V., Izotova L.S., Pollack B.P., Mariano T.M., Donnelly R.J., Muthukumaran G., Cook J.R., Garotta G., Silvennoinen O., Ihle J.N., et al. Interaction between the components of the interferon gamma receptor complex. *J. Biol. Chem.* 270:20915-20921(1995)
2. Rosenzweig S.D., Schwartz O.M., Brown M.R., Leto T.L., Holland S.M. Characterization of a dipeptide motif regulating IFN-gamma receptor 2 plasma membrane accumulation and IFN-gamma responsiveness. *J. Immunol.* 173:3991-3999(2004)

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