

# Anti-IFNGR2 Antibody

## HA500246



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

**Description:** This gene (IFNGR2) encodes the non-ligand-binding beta chain of the gamma interferon receptor. Human interferon-gamma receptor is a heterodimer of IFNGR1 and IFNGR2. Defects in IFNGR2 are a cause of mendelian susceptibility to mycobacterial disease (MSMD), also known as familial disseminated atypical mycobacterial infection. MSMD is a genetically heterogeneous disease with autosomal recessive, autosomal dominant or X-linked inheritance.

**Immunogen:** Synthetic peptide within human IFN gamma Receptor beta aa 288-337.

**Positive control:** HeLa cell lysate, C2C12 cell lysate, F9 cell lysate, mouse lung tissue lysate, mouse spleen tissue lysate, rat lung tissue lysate, rat spleen tissue lysate, SH-SY5Y, human stomach tissue, mouse bladder tissue, rat lung tissue.

**Subcellular location:** Golgi apparatus membrane, Cell membrane, Cytoplasm, Endoplasmic reticulum membrane, Cytoplasmic vesicle membrane.

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

### Recommended Dilutions:

<b>WB</b>	1:1,000
<b>IF-Cell</b>	1:200
<b>IHC-P</b>	1:600
<b>IF-Tissue</b>	1:200

**Storage Buffer:** PBS (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:** Immunogen affinity purified.

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Orders:0086-571-88062880

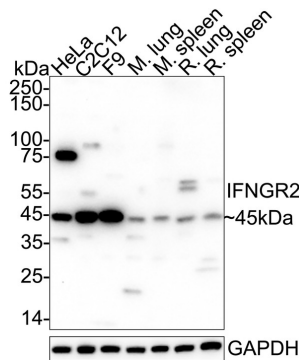
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## Images

**Fig1:** Western blot analysis of IFNGR2 on different lysates with Rabbit anti-IFNGR2 antibody (HA500246) at 1/1,000 dilution.



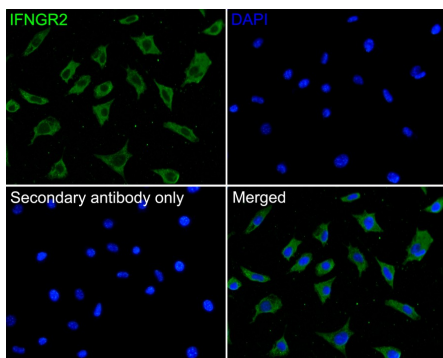
Lane 1: HeLa cell lysate (20 µg/Lane)  
 Lane 2: C2C12 cell lysate (20 µg/Lane)  
 Lane 3: F9 cell lysate (20 µg/Lane)  
 Lane 4: Mouse lung tissue lysate (40 µg/Lane)  
 Lane 5: Mouse spleen tissue lysate (40 µg/Lane)  
 Lane 6: Rat lung tissue lysate (40 µg/Lane)  
 Lane 7: Rat spleen tissue lysate (40 µg/Lane)

Predicted band size: 38 kDa  
 Observed band size: 45 kDa

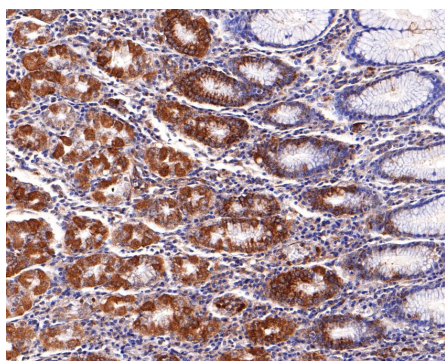
Exposure time: 1 minute; ECL: K1801;

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 (HA500246) at 1/1,000 dilution was used in 5% NFDm/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.



**Fig2:** ICC staining of IFNGR2 in SH-SY5Y cells (green). Formalin fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 10 minutes at room temperature and blocked with 10% negative goat serum for 15 minutes at room temperature. Cells were probed with the primary antibody (HA500246, 1/200) for 1 hour at room temperature, washed with PBS. Alexa Fluor®488 conjugate-Goat anti-Rabbit IgG was used as the secondary antibody at 1/1,000 dilution. The nuclear counter stain is DAPI (blue).



**Fig3:** Immunohistochemical analysis of paraffin-embedded human stomach tissue using anti-IFNGR2 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 1% BSA for 30 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (HA500246, 1/600) 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.

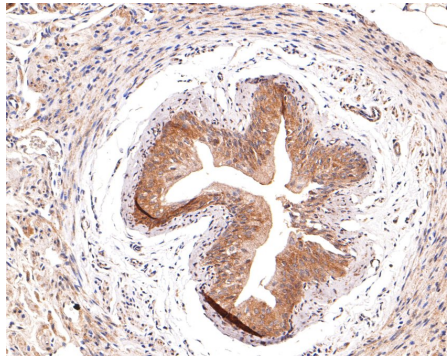
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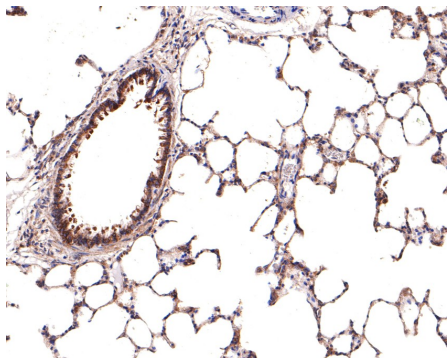
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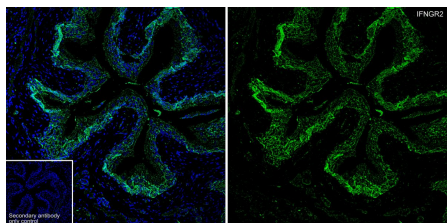
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**Fig4:** Immunohistochemical analysis of paraffin-embedded mouse bladder tissue using anti-IFNGR2 antibody. The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 30 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (HA500246, 1/600) 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:** Immunohistochemical analysis of paraffin-embedded rat lung tissue using anti-IFNGR2 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 1% BSA for 30 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (HA500246, 1/600) 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.



**Fig6:** Application: IF-Tissue

Species: Mouse

Site: bladder

Sample: Paraffin-embedded section

Antibody concentration: 1/200

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

## Background References

1. Fancher AT. et. al. Assays to Interrogate the Ability of Compounds to Inhibit the AF-2 or AF-1 Transactivation Domains of the Androgen Receptor. Assay Drug Dev Technol. 2019 Nov/Dec
2. Arao Y. et. al. N-terminal transactivation function, AF-1, of estrogen receptor alpha controls obesity through enhancement of energy expenditure. Mol Metab. 2018 Dec

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