

KD-Validated Anti-IFNGR1 Rabbit Monoclonal Antibody
Rabbit monoclonal antibody
Catalog # AGI2104**Specification****KD-Validated Anti-IFNGR1 Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC, ICC
Primary Accession	P15260
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 54 kDa, observed, 50-100 kDa
Gene Name	KDa
Aliases	IFNGR1 IFNGR1; Interferon Gamma Receptor 1; CD119; IFN-Gamma Receptor 1; IFN-Gamma-R-Alpha; CD119 Antigen; IFN-Gamma-R1; CDw119; IFNGR; Interferon-Gamma Receptor Alpha Chain; Interferon Gamma Receptor Alpha-Chain; Immune Interferon Receptor 1; Antiviral Protein, Type 2; AVP, Type 2; IMD27A; IMD27B
Immunogen	A synthesized peptide derived from human IFNGR1

KD-Validated Anti-IFNGR1 Rabbit Monoclonal Antibody - Additional Information

Gene ID	3459
Other Names	
Interferon gamma receptor 1 {ECO:0000312 HGNC:HGNC:5439}, IFN-gamma receptor 1, IFN-gamma-R1, CDw119, Interferon gamma receptor alpha-chain, IFN-gamma-R-alpha, CD119, IFNGR1 (http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=5439) target="_blank">HGNC:5439)	

KD-Validated Anti-IFNGR1 Rabbit Monoclonal Antibody - Protein Information**Name** IFNGR1 ([HGNC:5439](#))**Function**

Receptor subunit for interferon gamma/INFG that plays crucial roles in antimicrobial, antiviral, and antitumor responses by activating effector immune cells and enhancing antigen presentation (PubMed:[20015550](http://www.uniprot.org/citations/20015550)). Associates with transmembrane accessory factor IFNGR2 to form a functional receptor (PubMed:[10986460](http://www.uniprot.org/citations/10986460), PubMed:[2971451](http://www.uniprot.org/citations/2971451), PubMed:[7615558](http://www.uniprot.org/citations/7615558), PubMed:[7617032](http://www.uniprot.org/citations/7617032)),

PubMed:7673114). Upon ligand binding, the intracellular domain of IFNGR1 opens out to allow association of downstream signaling components JAK1 and JAK2. In turn, activated JAK1 phosphorylates IFNGR1 to form a docking site for STAT1. Subsequent phosphorylation of STAT1 leads to dimerization, translocation to the nucleus, and stimulation of target gene transcription (PubMed:28883123). STAT3 can also be activated in a similar manner although activation seems weaker. IFNGR1 intracellular domain phosphorylation also provides a docking site for SOCS1 that regulates the JAK-STAT pathway by competing with STAT1 binding to IFNGR1 (By similarity).

Cellular Location

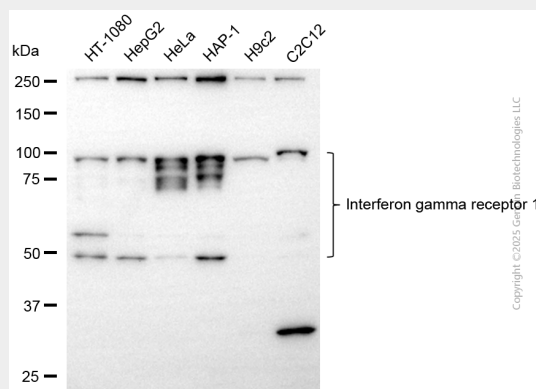
Cell membrane; Single-pass type I membrane protein

KD-Validated Anti-IFNGR1 Rabbit Monoclonal Antibody - Protocols

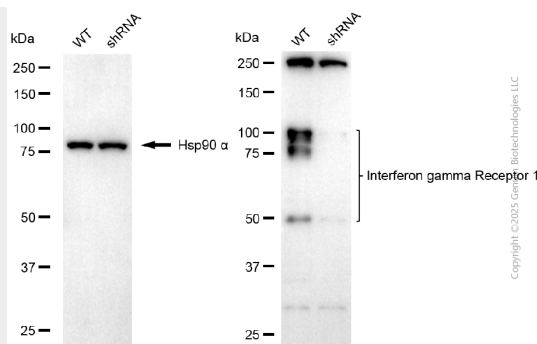
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

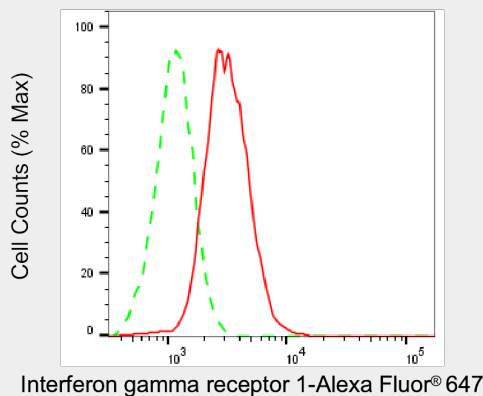
KD-Validated Anti-IFNGR1 Rabbit Monoclonal Antibody - Images



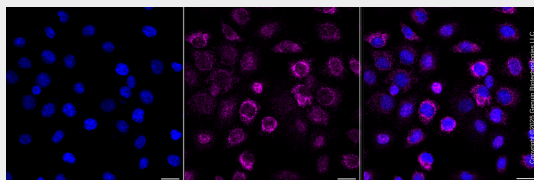
Western blotting analysis using anti-interferon gamma receptor 1 antibody (Cat#AGI2104). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-interferon gamma receptor 1 antibody (Cat#AGI2104, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-interferon gamma receptor 1 antibody (Cat#AGI2104). Interferon gamma receptor 1 expression in wild-type (WT) and interferon gamma receptor 1 (IFNGR1) shRNA knockdown (KD) 293T cells with 20 μ g of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-interferon gamma receptor 1 antibody (Cat#AGI2104, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of HNRNPA1L2 expression in HepG2 cells using anti-HNRNPA1L2 antibody (Cat# 64897, 1:1,000). Green, isotype control; red, HNRNPA1L2.



Immunocytochemical staining of C2C12 cells with anti-Interferon gamma receptor 1 antibody (Cat#AGI2104, 1:1,000). Nuclei were stained blue with DAPI; Interferon gamma receptor 1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 μ m.