

KD-Validated Anti-IFNGR1 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

Catalog # AGI2104

Product Information

Application	WB, FC, ICC
Primary Accession	P15260
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	24GB13660
Calculated MW	54405
Gene Name	IFNGR1
Aliases	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

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 (HGNC:5439)

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). Associates with transmembrane accessory factor IFNGR2 to form a functional receptor (PubMed: 10986460 , PubMed: 2971451 , PubMed: 7615558 , PubMed: 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

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