

IFNGR1 Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12650b

Specification

IFNGR1 Antibody (C-term) - Product Information

Application	WB,E
Primary Accession	P15260
Other Accession	NP_000407.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	54405
Antigen Region	463-489

IFNGR1 Antibody (C-term) - Additional Information

Gene ID 3459

Other Names

Interferon gamma receptor 1, IFN-gamma receptor 1, IFN-gamma-R1, CDw119, CD119, IFNGR1

Target/Specificity

This IFNGR1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 463-489 amino acids from the C-terminal region of human IFNGR1.

Dilution

WB~~1:1000

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

IFNGR1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

IFNGR1 Antibody (C-term) - 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

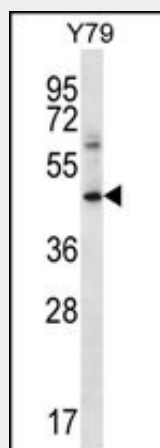
Cell membrane; Single-pass type I membrane protein

IFNGR1 Antibody (C-term) - 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](#)

IFNGR1 Antibody (C-term) - Images



IFNGR1 Antibody (C-term) (Cat. #AP12650b) western blot analysis in Y79 cell line lysates (35ug/lane). This demonstrates the IFNGR1 antibody detected the IFNGR1 protein (arrow).

IFNGR1 Antibody (C-term) - Background

This gene (IFNGR1) encodes the ligand-binding chain (alpha) of the gamma interferon receptor. Human interferon-gamma receptor is a heterodimer of IFNGR1 and IFNGR2. A genetic variation in IFNGR1 is associated with susceptibility to *Helicobacter pylori* infection. In addition, defects in IFNGR1 are a cause of mendelian susceptibility to mycobacterial disease, also known as familial

disseminated atypical mycobacterial infection. [provided by RefSeq].

IFNGR1 Antibody (C-term) - References

Silva, L.K., et al. Eur. J. Hum. Genet. 18(11):1221-1227(2010)
Shimada, M., et al. Hum. Genet. 128(4):433-441(2010)
Romero, R., et al. Am. J. Obstet. Gynecol. 203 (4), 361 (2010) :
Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)
de Wit, E., et al. Mamm. Genome (2010) In press :