10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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
E~~Use at an assay dependent concentration.

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).

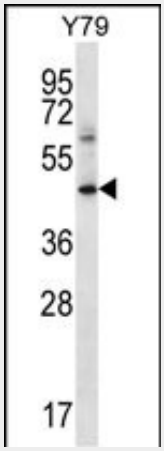
Cellular Location
Cell membrane; Single-pass type I membrane protein

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 Cytomety
- 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 :