

IFNGR1 Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP12650b**Specification**

IFNGR1 Antibody (C-term) Blocking peptide - Product InformationPrimary Accession [P15260](#)**IFNGR1 Antibody (C-term) Blocking peptide - Additional Information****Gene ID** 3459**Other Names**

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

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

IFNGR1 Antibody (C-term) Blocking peptide - 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:7615558, PubMed:2971451, PubMed:7617032, PubMed:10986460, 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) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

IFNGR1 Antibody (C-term) Blocking peptide - Images**IFNGR1 Antibody (C-term) Blocking peptide - Background**

This gene (IFNGR1) encodes the ligand-binding chain(alpha) of the gamma interferon receptor. Human interferon-gammareceptor 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) Blocking peptide - 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 :