

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

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**IFNGR1 Antibody (C-term) Blocking peptide - Product Information**Primary 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:<a href="http://www.uniprot.org/citations/20015550" target="\_blank">20015550</a>). Associates with transmembrane accessory factor IFNGR2 to form a functional receptor (PubMed:<a href="http://www.uniprot.org/citations/7615558" target="\_blank">7615558</a>, PubMed:<a href="http://www.uniprot.org/citations/2971451" target="\_blank">2971451</a>, PubMed:<a href="http://www.uniprot.org/citations/7617032" target="\_blank">7617032</a>, PubMed:<a href="http://www.uniprot.org/citations/10986460" target="\_blank">10986460</a>, PubMed:<a href="http://www.uniprot.org/citations/7673114" target="\_blank">7673114</a>). 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:<a href="http://www.uniprot.org/citations/28883123" target="\_blank">28883123</a>). 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 :