

IFNGR1 (pY457) Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51647**Specification**

IFNGR1 (pY457) Antibody - Product Information

Application	WB, E
Primary Accession	P15260
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	90 KDa

IFNGR1 (pY457) Antibody - Additional Information**Gene ID** 3459**Other Names**

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

Format

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

Storage

Store at -20 °C. Stable for 12 months from date of receipt

IFNGR1 (pY457) Antibody - 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](http://www.uniprot.org/citations/20015550)). Associates with transmembrane accessory factor IFNGR2 to form a functional receptor (PubMed: [10986460](http://www.uniprot.org/citations/10986460), PubMed: [2971451](http://www.uniprot.org/citations/2971451), PubMed: [7615558](http://www.uniprot.org/citations/7615558), PubMed: [7617032](http://www.uniprot.org/citations/7617032), PubMed: [7673114](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/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 (pY457) Antibody - 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 (pY457) Antibody - Images**IFNGR1 (pY457) Antibody - Background**

Receptor for interferon gamma. Two receptors bind one interferon gamma dimer.

IFNGR1 (pY457) Antibody - References

Aguet M., et al. Cell 55:273-280(1988).
Kalnine N., et al. Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.
Mungall A.J., et al. Nature 425:805-811(2003).
Mural R.J., et al. Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
Stueber D., et al. Biochemistry 32:2423-2430(1993).