

**IFN- $\gamma$  R II**  
**Catalog # PVGS1343****Specification**

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**IFN- $\gamma$  R II - Product Information**

Primary Accession [P38484](#)  
**Species**  
Human

**Sequence**  
Ser28-Gln247

**Purity**  
> 95% as analyzed by SDS-PAGE

**Endotoxin Level**  
< 0.2 EU/  $\mu$ g of protein by gel clotting method

**Biological Activity**  
ED<sub>50</sub> < 0.1  $\mu$ g/ml, measured in a cell cytotoxicity assay using HT-29 (HTB-38) cells in the presence of 1.0 ng/ml human IFN-gamma.

**Expression System**  
CHO

Formulation **Lyophilized after extensive dialysis against PBS.**

**Reconstitution**  
It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH<sub>2</sub>O or PBS up to 100  $\mu$ g/ml.

**Storage & Stability**  
Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

**IFN- $\gamma$  R II - Additional Information**

**Gene ID** 3460

**Other Names**  
Interferon gamma receptor 2 {ECO:0000312|HGNC:HGNC:5440}, IFN-gamma receptor 2, IFN-gamma-R2, Interferon gamma receptor accessory factor 1, AF-1, Interferon gamma receptor beta-chain, IFN-gamma-R-beta, Interferon gamma transducer 1 {ECO:0000312|HGNC:HGNC:5440}, IFNGR2 ([HGNC:5440](http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=5440))

## Target Background

IFN-gamma Receptor II, also known as IFNGR2 and IFNGT1, is a transmembrane protein belonging to the type II cytokine receptor family. IFNGR2 is a non-ligand-binding beta chain of the IFN-gamma receptor. It is an integral part of the IFN-gamma signaling transduction pathway and is likely to interact with GAF, JAK1 and JAK2. Defects in IFNGR2 are a cause of autosomal recessive Mendelian susceptibility to mycobacterial disease (MSMD), also known as familial disseminated atypical mycobacterial infection.

## IFN- $\gamma$ R II - Protein Information

**Name** IFNGR2 ([HGNC:5440](#))

### Function

Associates with IFNGR1 to form a receptor for the cytokine interferon gamma (IFNG) (PubMed:<a href="http://www.uniprot.org/citations/7615558" target="\_blank">7615558</a>, PubMed:<a href="http://www.uniprot.org/citations/7673114" target="\_blank">7673114</a>, PubMed:<a href="http://www.uniprot.org/citations/8124716" target="\_blank">8124716</a>). Ligand binding stimulates activation of the JAK/STAT signaling pathway (PubMed:<a href="http://www.uniprot.org/citations/15356148" target="\_blank">15356148</a>, PubMed:<a href="http://www.uniprot.org/citations/7673114" target="\_blank">7673114</a>, PubMed:<a href="http://www.uniprot.org/citations/8124716" target="\_blank">8124716</a>). Required for signal transduction in contrast to other receptor subunit responsible for ligand binding (PubMed:<a href="http://www.uniprot.org/citations/7673114" target="\_blank">7673114</a>).

### Cellular Location

Cell membrane; Single-pass type I membrane protein. Cytoplasmic vesicle membrane; Single-pass type I membrane protein. Golgi apparatus membrane; Single-pass type I membrane protein. Endoplasmic reticulum membrane; Single-pass type I membrane protein. Cytoplasm. Note=Has low cell surface expression and high cytoplasmic expression in T cells. The bias towards cytoplasmic expression may be due to ligand-independent receptor internalization and recycling.

### Tissue Location

Expressed in T-cells (at protein level).

## IFN- $\gamma$ R II - 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](#)

## IFN- $\gamma$ R II - Images