

# Interferon gamma Receptor 1 Rabbit mAb

Catalog # AP78093

## Product Information

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<b>Application</b>	WB, IHC-P, IF, FC, ICC
<b>Primary Accession</b>	<a href="#">P15260</a>
<b>Reactivity</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	Monoclonal Antibody
<b>Isotype</b>	IgG
<b>Conjugate</b>	Unconjugated
<b>Immunogen</b>	A synthesized peptide derived from human IFNGR1
<b>Purification</b>	Affinity Chromatography
<b>Calculated MW</b>	54405

## Additional Information

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<b>Gene ID</b>	3459
<b>Other Names</b>	IFNGR1
<b>Dilution</b>	WB~~1/500-1/1000 IHC-P~~N/A IF~~1:50~200 FC~~1:10~50 ICC~~N/A
<b>Format</b>	Liquid in 10mM PBS, pH 7.4, 150mM sodium chloride, 0.05% BSA, 0.02% sodium azide and 50% glycerol.
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

## Protein Information

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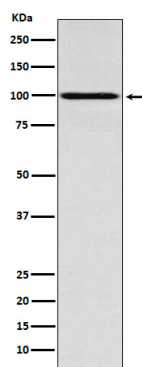
<b>Name</b>	IFNGR1 ( <a href="#">HGNC:5439</a> )
<b>Function</b>	Receptor subunit for interferon gamma/INFG that plays crucial roles in antimicrobial, antiviral, and antitumor responses by activating effector immune cells and enhancing antigen presentation (PubMed: <a href="#">20015550</a> ). Associates with transmembrane accessory factor IFNGR2 to form a functional receptor (PubMed: <a href="#">10986460</a> , PubMed: <a href="#">2971451</a> , PubMed: <a href="#">7615558</a> , PubMed: <a href="#">7617032</a> , PubMed: <a href="#">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="#">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

**Images**

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