Product Name: IFNGR1 (17F15) Rabbit Monoclonal Antibody
Catalog #: AMRe12397

Summary

Production Name	IFNGR1 (17F15) Rabbit Monoclonal Antibody
Description	Rabbit Monoclonal Antibody
Host	Rabbit
Application	WB
Reactivity	Human

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% New type preservative N and 0.05% BSA.
Purification	Affinity purification

Immunogen

Gene Name	IFNGR1
Alternative Names	CD119; CDw119; IFN gamma R alpha; IFNGR1;
Gene ID	3459.0
SwissProt ID	P15260.A synthetic peptide of human IFNGR1

Application

Dilution Ratio	WB: 1:1000-1:5000
Molecular Weight	54kDa

Background

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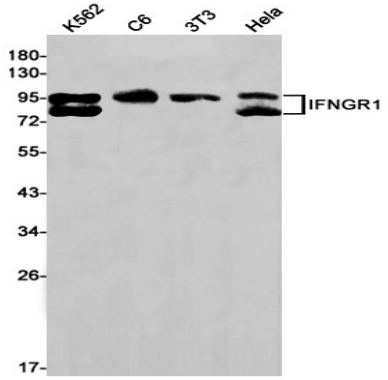
Receptor for interferon gamma. Two receptors bind one interferon gamma dimer. Receptor subunit for interferon gamma/INFG that plays crucial roles in antimicrobial, antiviral, and antitumor responses by activating effector immune cells and enhancing antigen presentation (PubMed:20015550). Associates with 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).

Research Area

Image Data



Western blot detection of IFNGR1 in K562,C6,3T3,Hela cell lysates using IFNGR1 antibody(1:1000 diluted).

Note

For research use only.