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Anti-IFNGR1 Antibody

Rabbit polyclonal antibody to IFNGR1
Catalog # AP61528

Product Information

Application	WB
Primary Accession	P15260
Reactivity	Human, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	54405

Additional Information

Gene ID	3459
Other Names	Interferon gamma receptor 1; IFN-gamma receptor 1; IFN-gamma-R1; CDw119; CD119
Target/Specificity	Recognizes endogenous levels of IFNGR1 protein.
Dilution	WB~~WB (1/500 - 1/1000)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

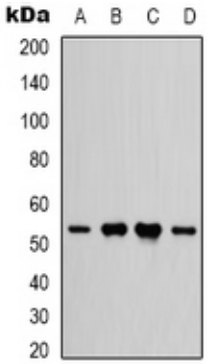
Name	IFNGR1 (HGNC:5439)
Function	Receptor subunit for interferon gamma/INFG that plays crucial roles in antimicrobial, antiviral, and antitumor responses by activating effector immune cells and enhancing antigen presentation (PubMed:20015550). Associates with transmembrane accessory factor IFNGR2 to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

Cellular Location Cell membrane; Single-pass type I membrane protein

Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human IFNGR1. The exact sequence is proprietary.

Images



Western blot analysis of IFNGR1 expression in HEK293T (A), Hela (B), rat heart (C), rat brain (D) whole cell lysates.