



Anti-Human Interferon gamma (IFN) R1 (#7K51)

20230310DS



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	101-M799
Size:	100 µg
Lot. No.:	According to product label

Preparation: This antibody was produced from a hybridoma (mouse myeloma fused with spleen cells from a mouse immunized with human recombinant protein of IFN gamma).

Target Background

Synonyms (Target):	Interferon gamma receptor 1, IFN-gamma receptor 1; IFN-gamma-R1, CDw119, Interferon gamma receptor alpha-chain (IFN-gamma-R-alpha), CD119
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The high-affinity IFN-gamma receptor complex is made up of two type I membrane proteins, IFN-gamma R1 (IFN-gamma R alpha) and IFN-gamma R2 (IFN-gamma R beta). Both proteins are members of the type II cytokine receptor family and share approximately 52% amino acid sequence identity. IFN-gamma R1 is the ligand-binding subunit that is necessary and sufficient for IFN-gamma binding and receptor internalization. IFN-gamma R2 is required for IFN-gamma signalling but does not bind IFN-gamma by itself. Human IFN-gamma R1 cDNA encodes a 499 amino acid (aa) residue protein with a 17 aa signal peptide, a 228 aa extracellular domain, a 23 aa transmembrane domain, and a 221 aa intracellular domain. Human and mouse IFN-gamma R1 share 52% amino acid sequence identity and bind IFN-gamma in a species-specific manner. IFN-gamma R1 is constitutively expressed in most cell types. Soluble IFN-gamma R1 that binds IFN-gamma has been detected in biological fluids.

Database References Target

Protein RefSeq:	NP_000407.1
Uniprot ID:	P15260
mRNA RefSeq:	NM_000416.2

Product Specifications

Host	Mouse
Reactivity against	Human
Clonality	Monoclonal Antibody
Clone	(#7K51)
Isotype	IgG1
Purification	Protein G chromatography
Antigen	Human recombinant IFN gamma R1 EC domain
Formulation	lyophilized
Reconstitution buffer	PBS

Application/Handling

Reconstitution: Centrifuge vial prior to opening. Reconstitute the antibody with 500 µl sterile PBS and the final concentration is 200 µg/ml.

Stability: Lyophilized samples are stable for 2 years from date of receipt when stored at -70°C. Reconstituted antibody can be aliquoted and stored frozen at < -20°C for at least for six months without detectable loss of activity.



AVOID REPEATED FREEZE AND THAW CYCLES!

Applications

The antibody can be used within the following applications:
WB, FC, N

NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!