

Active Recombinant Mouse Ifngr1 Homodimer Protein, His tagged

Cat. No. Ifngr1-43M **Lot. No.** (See product label)

SPECIFICATION

Product Overview IFN γ R1 protein dimer contains a IFN γ R1 extracellular domain (UniProt# P15261) fused with a proprietary cis-dimer motif followed by a His tag at the C-terminus was expressed in HEK293T.

Species Mouse

Source HEK293T


ProteinLength 26-254 aa

Description Mouse interferon gamma receptor 1 (IFN γ R1), also known as cluster of differentiation 119 (CD119), IMD27A and IMD27B, is a subunit of interferon gamma receptor (IFN γ R). IFN γ R belongs to the type II cytokine receptor family. IFN γ R1 is a Type I integral membrane glycoprotein containing extracellular, transmembrane and intracellular domains. IFN γ R consists of two subunits: IFN γ R1 (ligand-binding) and IFN γ R2 (signal transduction). The extracellular domain has two immunoglobulin-like (Ig-like) C2-type domains. The interferon gamma (IFN γ) protein interacts with two IFN γ R1 molecules to activate the cascade signaling pathway. IFN γ R is a crucial component of the JAK-STAT signaling pathway that mediates the biological effects of IFN- γ in mice.

Molecular Mass 68 kDa

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Purity	Greater than 90% dimer form as determined by SDS-PAGE under non-reducing condition
Application	Verified Applications: ELISA for IFN γ R1-specific antibody and interferon γ (IFN γ) ligand protein binding assays. SPR for IFN γ R1-specific antibody and IFN γ ligand protein binding assays. Suggested Applications: BLI for IFN γ R1-specific antibody and IFN γ protein dimer binding assays. Animal immunization, RUO.
Storage	Store at -80 centigrade.
Storage Buffer	0.22 μ m filtered PBS, pH 7.4
Shipping	Frozen Dry Ice

GENE INFORMATION

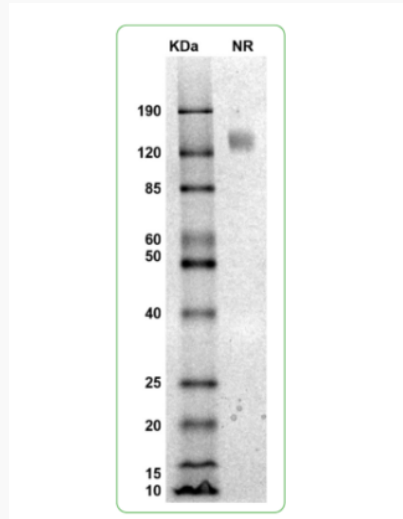
Gene Name	Ifngr1 interferon gamma receptor 1 [Mus musculus (house mouse)]
Official Symbol	Ifngr1
Synonyms	Ifngr1; interferon gamma receptor 1; Ifgr; CD119; Ifngr; Nktar; IFN-gammaR; interferon gamma receptor 1; IFN-gamma receptor 1; IFN-gamma-R-alpha; IFN-gamma-R1; INF-g receptor; interferon gamma receptor alpha-chain
Gene ID	15979
mRNA Refseq	NM_010511
Protein Refseq	NP_034641
UniProt ID	P15261

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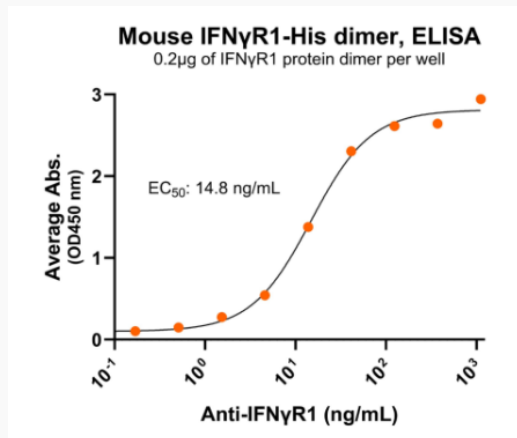
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SDS-PAGE and WB



MW: Molecular Weight marker reduced condition NR: IFN γ R1 dimer under non-reduced condition

Bioactivity-Antibody Binding



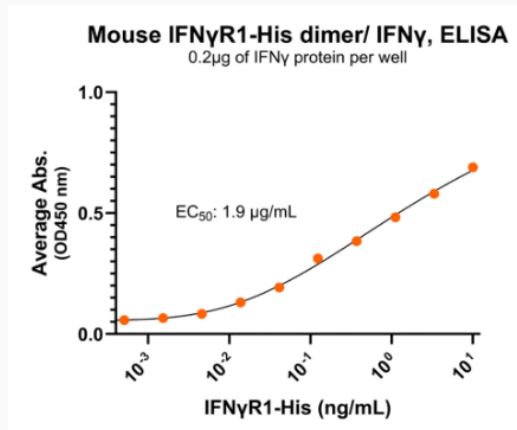
Immobilized mouse IFN γ R1 protein dimer, His Tag at 2 μ g/mL (100 μ L/well) can bind anti-mouse IFN γ R1 monoclonal antibody with half maximal effective concentration (EC₅₀) range of 7.4-29.6 ng/mL (QC tested).

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Bioactivity-Ligand Binding



Immobilized mouse IFN γ at 2 μ g/mL (100 μ L/well) can bind IFN γ R1 protein dimer, His Tag with half maximal effective concentration (EC₅₀) range of 0.9-3.7 ng/mL (QC tested).

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