Active Recombinant Human IFNGR2 protein, His-tagged

Cat. No. IFNGR2-3139H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human IFNGR2 protein(P38484)(1-247 aa), fused with N-terminal His tag, was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	1-247 aa
Form	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	IFN gamma R2 (Interferon gamma receptor 2; also called IFN gamma R beta IFN gamma RII, or AF1) is a 60 64 kDa type I transmembrane glycoprotein that is a member of the class II cytokine receptor family of molecule). It is highly expressed on the surfaces of myeloid cells, moderately expressed on B cells, and poorly expressed on the surfaces of T cells. IFNγR2 is a cell-surface receptor that is required for interferon-γ signalling and therefore plays a critical immunoregulatory role in innate and adaptive immunity against viral and also bacterial and protozoal infections. IFNgR2 have been confirmed to mediate down-stream JAK-STAT signaling pathway in mammals. It is widely expressed as part of a preassembled cell surface multimeric complex. In the absence of IFN gamma, the complex contains two each of IFN gamma R1, R2 and Jak1 molecules. Binding of IFN gamma to IFN gamma R1 recruits Jak2 to IFN-gamma R2 and initiates phosphorylation, STAT1 binding, conformational changes and transcriptional regulation, which mainly inhibits

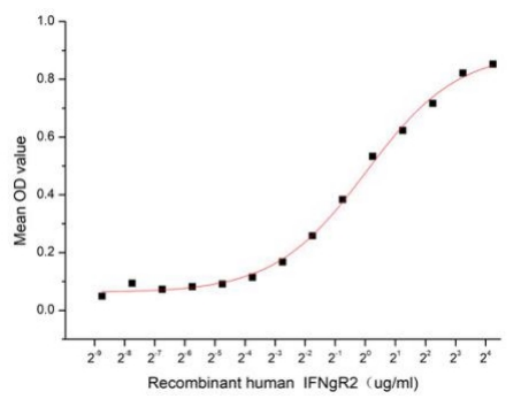
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	proliferation and/or promotes apoptosis. A functional binding ELISA assay was conducted to detect the interaction of recombinant human IFNgR2 and recombinant rat JAK2. Briefly, biotin-linked IFNgR2 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to JAK2-coated microtiter wells and incubated for 1h at 37°C. Wells were washed with PBST 3 times and incubation with Streptavidin-HRP for 30min, then wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50 µstop solution to the wells and read at 450 nm immediately. The binding activity of IFNgR2 and JAK2 was shown, the EC50 for this effect is 1.02 ug/mL.
Molecular Mass	29.2kDa
Endotoxin	<1.0EU per 1µg (determined by the LAL method).
Purity	> 90%
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

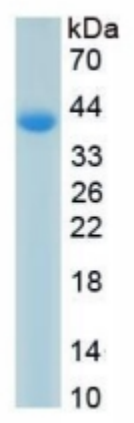
GENE INFORMATION

Gene Name	IFNGR2 interferon gamma receptor 2 (interferon gamma transducer 1) [Homo sapiens]
Official Symbol	IFNGR2
Synonyms	IFNGR2; interferon gamma receptor 2 (interferon gamma transducer 1); IFNGT1;

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	interferon gamma receptor 2; AF 1; IFN-gamma-R2; IFN-gamma receptor 2; interferon gamma transducer 1; interferon gamma receptor beta chain; interferon gamma receptor accessory factor 1; interferon gamma receptor accessory factor-1; AF-1; IFGR2;
Gene ID	3460
mRNA Refseq	NM_005534
Protein Refseq	NP_005525
MIM	147569
UniProt ID	P38484
Activity	

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