

Active Recombinant Mouse Ifna2 protein, His-tagged

Cat. No. Ifna2-977M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Mouse Ifna2 protein(P01573)(21~186 aa), fused with N-terminal His tag, was expressed in HEK293.
Species	Mouse
Source	HEK293
ProteinLength	21-186 aa
Form	Lyophilized from sterile PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	Interferon-alpha 2 (IFN alpha -2), one of 14 subtypes within the IFN-alpha class of Type I Interferons, was the first to be cloned in the early eighties. The size of the mature IFNα2 is thus 165 amino acids, which is one amino acid shorter than all other human IFNα subtypes. And it is Produced by macrophages, IFN-alpha have antiviral activities and is involved in cytokine storm inflammatory response. Janus Kinase 1 (JAK1), a kind of tyrosine kinase of the non-receptor type, is involved in the IFN-alpha/beta/gamma signal pathway. Thus a functional binding ELISA assay was conducted to detect the interaction of recombinant mouse IFNα2 and recombinant human JAK1. Briefly, IFNα2 was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to JAK1-coated microtiter wells and incubated for 1h at 37°C. Wells were washed with PBST and incubated for 1h with anti- IFNα2 pAb, then aspirated and washed 3 times. After incubation with HRP

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labelled secondary antibody for 1h at 37°C, 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 µ stop solution to the wells and read at 450/630 nm immediately. The binding activity of recombinant mouse IFNα2 and recombinant human JAK1 was shown, and this effect was in a dose dependent manner.

Molecular Mass	21.0kDa
Endotoxin	<1.0EU per 1µg (determined by the LAL method).
Purity	> 95% as determined by SDS-PAGE.
Storage	Avoid repeated freeze/thaw cycles. 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	Ifna2 interferon alpha 2 [Mus musculus]
Official Symbol	Ifna2
Synonyms	IFNA2; interferon alpha 2; interferon alpha-2; IFN-alpha-2; interferon alpha family, gene 2; Ifa2;
Gene ID	15965
mRNA Refseq	NM_010503

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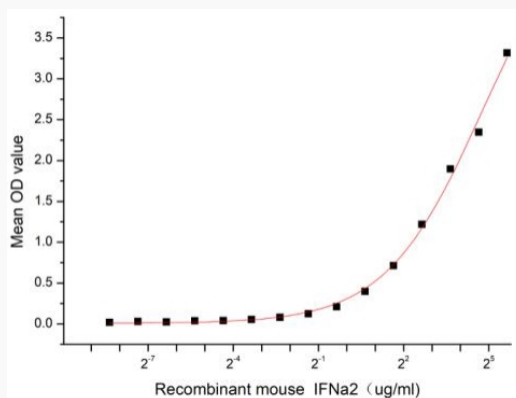
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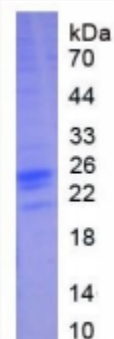
Protein Refseq

NP_034633

Activity



SDS-PAGE



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