

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 IFN α 2 is thus 165 amino acids, which is one amino acid shorter than all other human IFN α 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 IFN α 2 and recombinant human JAK1. Briefly, IFN α 2 was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 μ l 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- IFN α 2 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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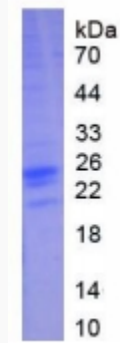
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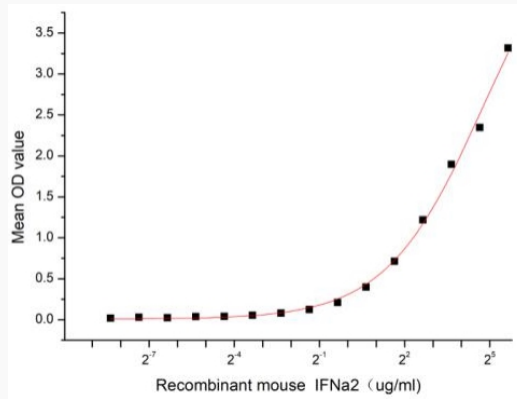
Protein Refseq

NP_034633

SDS-PAGE



Activity



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