

Rat Interferon alpha 1 protein, His tag

Cat. No. GTX00372-pro

Applications Functional Assay**Species** Rat**Package**

10 µg

Applications

Application Note

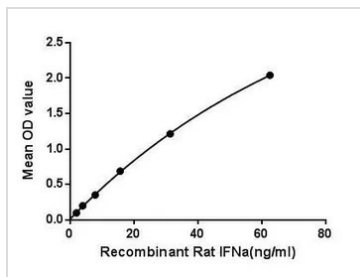
Interferon Alpha (IFNa) belongs to a large subgroup of interferon proteins that help regulate the activity of the immune system. The IFNa proteins are produced by leukocytes. They are mainly involved in innate immune response against viral infection. It is also made synthetically as medication in hairy cell leukemia. Besides, Interferon Alpha/Beta Receptor 1 (IFNa/bR1) has been identified as an interactor of IFNa, thus a binding ELISA assay was conducted to detect the interaction of recombinant rat IFNa and recombinant rat IFNa/bR1. Briefly, IFNa were diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to IFNa/bR1-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-IFNa pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50 µl stop solution to the wells and read at 450nm immediately. The binding activity of IFNa and IFNa/bR1 was in a dose dependent manner.

Observed MW (kDa) 23 kDa.

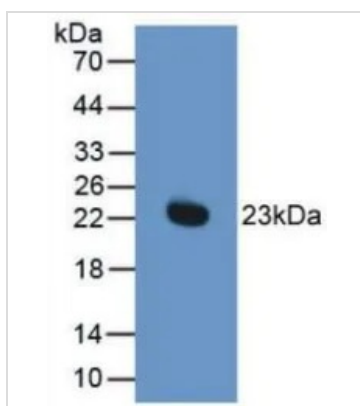
Properties

Form Lyophilized powder**Buffer** Reconstitute with 20mM Tris and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris, 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose.**Preservative** ProClin 300**Storage** For short-term storage (1-2 weeks), store at 4°C. For long-term storage, store at -20°C or below. After reconstitution, keep as concentrated solution. Avoid freeze-thaw cycles.**Region/Sequence** N-terminal His-Tag; Cys24~Ser192 (NP_001014786.1)**Expression System** E. coli**Purity** > 97%**Endotoxin** < 1 EU/µg**Conjugation** Unconjugated**Note** For laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.

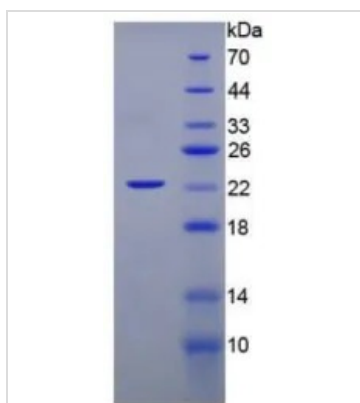
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DATA IMAGES

GTx00372-pro Functional Assay Image

Functional ELISA analysis of GTx00372-pro Rat Interferon alpha 1 protein which can bind immobilized IFNα/bR1 protein.


GTx00372-pro Image

WB analysis of GTx00372-pro Rat Interferon alpha 1 protein.


GTx00372-pro Image

SDS-PAGE analysis of GTx00372-pro Rat Interferon alpha 1 protein.



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