IFN-alpha 1 Monoclonal Antibody(Capture)

catalog number: AN002640P

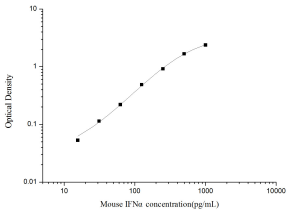
Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description

Reactivity	Mouse
Immunogen	Recombinant Mouse IFN-alpha 1 protein expressed by Mammalian
Host	Rat
Isotype	Rat IgG2a
Clone	7B2
Purification	Protein A/G Purification
Conjugation	Unconjugated
buffer	Phosphate buffered solution, pH 7.2, containing 0.05% proclin 300.

Applications	Recommended Dilution
ELISA Capture	2-8 μg/mL

Data



Sandwich ELISA-Recombinant Mouse IFN-alpha 1 protein standard curve.Background subtracted standard curve using IFN-alpha 1 antibody(AN002640P)(Capture),IFN-alpha 1 antibody(AN002650P)(Detector) in sandwich ELISA.The reference range value for Recombinant Mouse IFN-alpha 1 protein is 62.5-4000 ng/mL.

Preparation & Storage

Storage	Store at 4°C valid for 12 months or -20°C valid for long term storage, avoid freeze / thaw cycles.
Shipping	The product is shipped with ice pack, upon receipt, store it immediately at the temperature recommended.

Background

The interferons (IFN) are a family of cytokines with potent antiviral, antiproliferative and immunomodulatory properties, and classified based on their binding specificity to cell surface receptors. The type I IFN bind to the interferon alpha receptor (IFNAR), which consists of two subunits: IFNAR1 (alpha -subunit) and IFNAR2 (beta -subunit). This binding contributes to TNF-alpha induced signaling. Both the human and mouse genome code for more than a dozen closely related IFNa subtypes and the varous IFN a share about 80% sequence homology among them. Interferon-alpha 1 (IFNA1) is a secreted, approximately 19 kDa member of the type I interferon family of molecules. Mature mouse IFN-alpha 1 shares 63% and 82% amino acid sequence identity with human and rat IFN-alpha 1, respectively. Low level IFN-alpha is detected under physiological conditions, and the production of IFNs is markedly enhanced during virus infection. Although originally discovered by its capability to fight virus replication, IFN-alpha functions as a prototypic tumor suppressor that represses the clinical tumorigenic phenotype in some malignancies.

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