

## Anti-IFN $\alpha$ [AIFN] Bulk size

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**Description:** Recombinant monoclonal antibody to IFN $\alpha$ . Manufactured using AbAb's Recombinant Platform with variable regions (i.e. specificity) from the phage display antibody AIFN.

**Isotype and Format:** Rabbit IgG,

**Clone Number:** AIFN

**UniProt Accession Number of Target Protein:**

**Published Application(s):** Neutralize

**Published Species Reactivity:** Human

**Immunogen:** The scFv AIFN $\alpha$ 1bScFv01 was generated by screening a non-immune synthetic human antibody phage display library. The scFv sequence isolated was then be fused to a human IgG1 constant region to create a whole antibody.

**Specificity:** AIFN $\alpha$ 1bScFv01 and the AIFN $\alpha$ 1bIgG01 whole antibody bind to IFN $\alpha$ 1b (KD  $\sim$ 0.75 nM determined by SPR); the epitope consists of the P26-N40 region in loop AB and E147-R150 region in helix E of IFN $\alpha$ 1b - residues L30, D32, D35 and R150 are critical for binding. The antibody also binds to IFNR2, which shares partial epitopes with IFN $\alpha$ 1b - binding affinity to IFNR2 is much weaker. The antibody does not bind to recombinant IFN $\alpha$ 2b or IFN $\gamma$ . IFN $\alpha$  is a cytokine and modulates the activity of T cells, B cells and dendritic cells to regulate immunological functions, and are produced during the early stages of the immune response. Overproduction of IFN $\alpha$  can result in the occurrence of autoimmune diseases such as SLE (systemic lupus erythematosus), a multi-organ autoimmune disease that primarily affects the skin, joints, blood cells, heart, kidneys, and the nervous system.

**Antibody First Published in:**

Ouyang et al. J Mol Med (Berl). 2012 Jul;90(7):837-46 [PMID:22307521](#) **Note on publication:**

Describes the generation of anti-IFN $\alpha$  antibody by non-immune human phage display. The antibody was characterized both in vivo and in vitro, and the crystal structure of the antibody scFv with IFN $\alpha$ 1b was solved.

## Product Form

This is a Bulk size product. Purified antibody in bulk size.

**Purification:** Protein A affinity purified

**Supplied in:** PBS only.

**Storage Recommendation:** Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20°C.

**Concentration:** See vial label

**Product Code:** Ab00792-23.0-BT

## Rabbit IgG

Important note - This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.