

Anti-IFN α [AIFN] Bulk size

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Description: Recombinant monoclonal antibody to IFN α . 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 α 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 α 1bScFv01 and the AIFN α 1bIgG01 whole antibody bind to IFN α 1b (KD ~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 α 1b - residues L30, D32, D35 and R150 are critical for binding. The antibody also binds to IFNR2, which shares partial epitopes with IFN α 1b - binding affinity to IFNR2 is much weaker. The antibody does not bind to recombinant IFN α 2b or IFN γ . IFN α 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 α 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 α 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 α 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.