

Recombinant Human STAT3 protein, His-tagged

Cat. No. STAT3-31H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human STAT3 protein(Ile576~Pro678), fused with N-terminal His tag, was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	576-678 a.a.
Form	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5%Trehalose.
Bio-activity	Signal transducer and activator of transcription 3 (STAT3) is a member of the STAT protein family. STAT3 mediates the expression of a variety of genes in response to cell stimuli, and thus plays a key role in many cellular processes such as cell growth and apoptosis. STAT3 is phosphorylated by receptor-associated Janus kinases (JAK), form homo- or heterodimers, and translocate to the cell nucleus where they act as transcription activators. Besides, Epidermal Growth Factor Receptor 2 (EGFR2) has been identified as an interactor of STAT3, thus a binding ELISA assay was conducted to detect the interaction of recombinant human STAT3 and recombinant human EGFR2. Briefly, STAT3 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100μL were then transferred to EGFR2-coated microtiter wells and incubated for 2h at 37°C . Wells were washed with PBST and incubated for 1h with anti-STAT3 pAb, then aspirated and washed 3 times. After incubation with HRP

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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 50µL stop solution to the wells and read at 450nm immediately. The binding activity of STAT3 and EGFR2 was shown in Figure, and this effect was in a dose dependent manner.

Molecular Mass	12.9kDa
Endotoxin	<1.0EU per 1µg (determined by the LAL method.
Purity	>95%
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	STAT3 signal transducer and activator of transcription 3 (acute-phase response factor) [Homo sapiens]
Official Symbol	STAT3
Synonyms	STAT3; signal transducer and activator of transcription 3 (acute-phase response factor); signal transducer and activator of transcription 3; APRF; DNA-binding protein APRF; acute-phase response factor; HIES; FLJ20882; MGC16063;
Gene ID	6774

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mRNA Refseq [NM_003150](#)

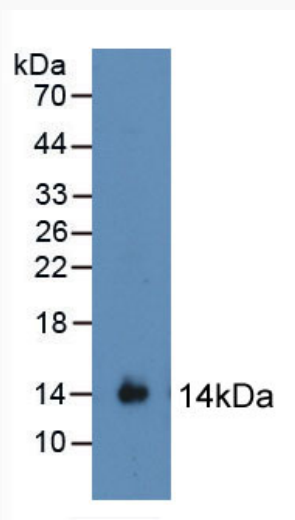
Protein Refseq [NP_003141](#)

MIM [102582](#)

UniProt ID [P40763](#)

Activity

WB

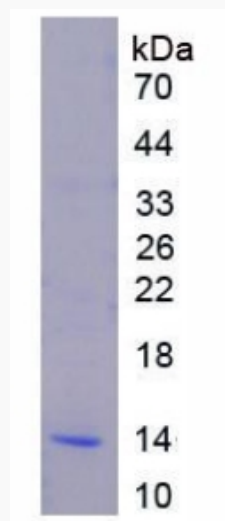


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SDS-PAGE



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