

## Recombinant Human STAT4

Cat. No. STAT4-30118TH Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant full length Human STAT4 protein expressed in a baculovirus system, Predicted MWt 86 kDa.

**Species** Human

**Description** The protein encoded by this gene is a member of the STAT family of transcription factors. In response to cytokines and growth factors, STAT family members are phosphorylated by the receptor associated kinases, and then form homo- or heterodimers that translocate to the cell nucleus where they act as transcription activators. This protein is essential for mediating responses to IL12 in lymphocytes, and regulating the differentiation of T helper cells. Mutations in this gene may be associated with systemic lupus erythematosus and rheumatoid arthritis. Alternate splicing results in multiple transcript variants that encode the same protein.

**Form** Liquid

**Storage buffer** Preservative: None  
Constituents: 20% Glycerol, 20mM Tris HCl, 100mM Potassium chloride, 1mM DTT, 0.2mM EDTA, pH 8.0

**Storage** Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

**Sequence Similarities** Belongs to the transcription factor STAT family. Contains 1 SH2 domain.

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**Full Length** Full L.

## GENE INFORMATION

**Gene Name** STAT4 signal transducer and activator of transcription 4 [ Homo sapiens ]

**Official Symbol** STAT4

**Synonyms** STAT4; signal transducer and activator of transcription 4;

**Gene ID** 6775

**mRNA Refseq** NM\_001243835

**Protein Refseq** NP\_001230764

**MIM** 600558

**Uniprot ID** Q14765

**Chromosome Location** 2q32.2-q32.3

**Pathway** Downstream signaling in naive CD8+ T cells, organism-specific biosystem; IL12 signaling mediated by STAT4, organism-specific biosystem; IL12-mediated signaling events, organism-specific biosystem; IL23-mediated signaling events, organism-specific biosystem; IL27-mediated signaling events, organism-specific biosystem;

**Function** calcium ion binding; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; signal transducer activity;

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