

## STAT4 protein

<b>Catalog No :</b>	YD0105
<b>Reactivity :</b>	Human
<b>Applications :</b>	WB;SDS-PAGE
<b>Gene Name :</b>	STAT4
<b>Protein Name :</b>	STAT4 protein
<b>Sequence :</b>	Amino acid: 506-748, with his-MBP tag.
<b>Human Gene Id :</b>	6775
<b>Human Swiss Prot No :</b>	Q14765
<b>Mouse Swiss Prot No :</b>	P42228
<b>Formulation :</b>	Liquid in PBS
<b>Concentration :</b>	SDS-PAGE >90%
<b>Storage Stability :</b>	-20 °C/6 month,-80 °C for long storage

**Background :** disease:Genetic variations in STAT4 are associated with susceptibility to rheumatoid arthritis (RA) [MIM:180300]. Rheumatoid arthritis is a complex, multifactorial disorder. It is one of the most common autoimmune diseases and it is characterized by inflammation of synovial tissue and joint destruction.,disease:Genetic variations in STAT4 are associated with susceptibility to systemic lupus erythematosus type 11 (SLEB11) [MIM:612253]. Systemic lupus erythematosus (SLE) is a chronic autoimmune disease with a complex genetic basis. SLE is an inflammatory, and often febrile multisystemic disorder of connective tissue characterized principally by involvement of the skin, joints, kidneys, and serosal membranes. It is thought to represent a failure of the regulatory mechanisms of the autoimmune system.,function:Carries out a dual function: signal transduction and activation of transcription. Involved in IL12 signaling.,PTM:Tyrosine phosphorylated. Serine phosphorylation is also required for maximal transcriptional activity.,similarity:Belongs to the transcription factor STAT family.,similarity:Contains 1 SH2 domain.,subcellular location:Translocated into the nucleus in response to phosphorylation.,subunit:Forms a homodimer or a

heterodimer with a related family member (By similarity). The SH2 domain interacts, in vitro, with IL12RB2 via a short cytoplasmic domain.,

**Function :**

transcription, regulation of transcription, DNA-dependent, protein amino acid phosphorylation, phosphorus metabolic process, phosphate metabolic process, intracellular signaling cascade, protein kinase cascade, JAK-STAT cascade, cell proliferation, phosphorylation, cytokine-mediated signaling pathway, regulation of transcription, regulation of RNA metabolic process,

**Subcellular Location :**

Cytoplasm. Nucleus. Translocated into the nucleus in response to phosphorylation.

**Sort :**

16704

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