

Recombinant Human STAT5B, GST-tagged

Cat. No. STAT5B-74H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human STAT5B was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
Description	STAT5B or signal transducer and activator of transcription 5B is a member of the STAT family of transcription factors. STATs 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. STAT5B is activated in response to a variety of cytokines. The JAK/STAT pathway mediates a key signal from the somatic gonad that regulates male germline sexual development. STAT5B is critical for maintenance of tolerance in vivo and it is proposed that STAT5B is probably activated by IL2R.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 50mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Molecular Mass	~115 kDa
Purity	>95% by densitometry.
Applications	Western Blot

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Storage	Store product at –70oC. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.2 µg/µl
GENE INFORMATION	
Gene Name	STAT5B signal transducer and activator of transcription 5B [Homo sapiens]
Official Symbol	STAT5B
Synonyms	STAT5B; signal transducer and activator of transcription 5B; transcription factor STAT5B; STAT5;
Gene ID	6777
mRNA Refseq	NM_012448
Protein Refseq	NP_036580
MIM	604260
UniProt ID	P51692
Chromosome Location	17q11.2
Pathway	Acute myeloid leukemia, organism-specific biosystem; Acute myeloid leukemia, conserved biosystem; Adipogenesis, organism-specific biosystem; Angiopoietin receptor Tie2-mediated signaling, organism-specific biosystem; CXCR4-mediated

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signaling events, organism-specific biosystem; Chemokine signaling pathway, organism-specific biosystem; Chemokine signaling pathway, conserved biosystem;

Function

RNA polymerase II core promoter sequence-specific DNA binding; calcium ion binding; double-stranded DNA binding; glucocorticoid receptor binding; protein binding; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; signal transducer activity;

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