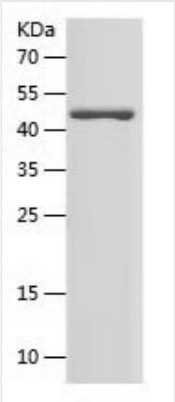
STAT5B Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	STAT5B, Recombinant Protein
Full Product Name	Recombinant Human STAT5B
Product Gene Name	STAT5B recombinant protein
Product Synonym Names	STAT5; STAT5B
Host	E Coli
Form/Format	Lyophilized from a 0.2 um filtered solution in 10 mM Hepes, 500 mM NaCl with 5% trehalose and 0.06% proclin, pH7.4
Purity/Purification	Greater than 85% by SDS-PAGE gel analyses
Preparation and Storage	Store at -20 degree C for 12 months as lyophilized; 2-8 degree C for 1 month under sterile conditions after reconstitution
Molecular Weight	89,866 Da
Sequence Positions	253-481
Chromosome Location	Chromosome: 17; NC_000017.10 (40351195..40428424, complement). Location: 17q11.2
OMIM	245590
3D Structure	ModBase 3D Structure for P51692
Species	Human
Tag	N-terminal His-IF2DI Tag
Reconstitution	Centrifuge the vial at 10,000 rpm for 1 minute, reconstitute at 200 ug/ml in sterile distilled water by gentle pipetting 2-3 times, don't vortex
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for STAT5B recombinant protein	Western Blot (WB), ELISA (EIA)
Related Product Information for STAT5B recombinant protein	MBS7616322 is a recombinant protein targeting STAT5B. Also known as Recombinant Human STAT5B. Host: E Coli.
Other Notes	Small volumes of STAT5B recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



SDS-Page of STAT5B recombinant protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for STAT5B. It may not necessarily be applicable to this product.

NCBI GI #	21618344
NCBI GeneID	6777
NCBI Accession #	NP_036580.2
UniProt Primary Accession #	P51692
UniProt Secondary Accession #	Q8WWS8
UniProt Related Accession #	P51692
GenBank Nucleotide #	NM_012448.3
NCBI Official Full Name	signal transducer and activator of transcription 5B
NCBI Official Synonym Full Names	signal transducer and activator of transcription 5B
NCBI Official Symbol	STAT5B
NCBI Official Synonym Symbols	STAT5
UniProt Protein Name	Signal transducer and activator of transcription 5B
Protein Family	Signal transducer and activator of transcription
UniProt Gene Name	STAT5B
UniProt Entry Name	STA5B_HUMAN
NCBI Protein Information	signal transducer and activator of transcription 5B; transcription factor STAT5B
NCBI Summary for STAT5B	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 mediates the signal transduction triggered by various cell ligands, such as IL2, IL4, CSF1, and different growth hormones. It has been shown to be involved in diverse biological processes, such as TCR signaling, apoptosis, adult mammary gland development, and sexual dimorphism of liver gene expression. This gene was found to fuse to retinoic acid receptor-alpha (RARA) gene in a small subset of acute promyelocytic leukemias (APLL). The dysregulation of the signaling pathways mediated by this protein may be the cause of the APLL. [provided by RefSeq, Jul 2008]

UniProt Comments for STAT5B	STAT5B: transcription factor of the STAT family. Phosphorylated and activated by receptor-associated kinases triggered by cytokines including IL2, IL3, GM-CSF, and various growth hormones. It has been shown to be involved in diverse biological processes, such as TCR signaling, apoptosis, adult mammary gland development, and sexual dimorphism of liver gene expression. Forms homo- or heterodimers that translocate into the nucleus where they regulate transcription. Protein type: DNA-binding; Oncoprotein; Transcription factor Chromosomal Location of Human Ortholog: 17q11.2 Cellular Component: nucleoplasm; cytoplasm; cytosol; nucleus Molecular Function: protein dimerization activity; protein binding; signal transducer activity; double-stranded DNA binding; chromatin binding; transcription factor activity; protein phosphatase binding; glucocorticoid receptor binding Biological Process: positive regulation of interleukin-2 biosynthetic process; T cell differentiation in the thymus; response to lipopolysaccharide; positive regulation of multicellular organism growth; female pregnancy; 2-oxoglutarate metabolic process; sequestering of lipid; natural killer cell differentiation; allantoin metabolic process; regulation of steroid metabolic process; acute-phase response; T cell homeostasis; Peyer's patch development; isoleucine metabolic process; positive regulation of natural killer cell proliferation; valine metabolic process; development of secondary female sexual characteristics; JAK-STAT cascade; regulation of transcription from RNA polymerase II promoter; response to ethanol; regulation of epithelial cell differentiation; positive regulation of transcription from RNA polymerase II promoter; taurine metabolic process; negative regulation of apoptosis; transcription from RNA polymerase II promoter; lactation; succinate metabolic process; oxaloacetate metabolic process; positive regulation of smooth muscle cell proliferation; progesterone metabolic process; positive regulation of activated T cell proliferation; positive regulation of mitotic cell cycle; fatty acid metabolic process; response to estradiol stimulus; positive regulation of natural killer cell differentiation; luteinization; development of secondary male sexual characteristics; creatinine metabolic process; positive regulation of gamma-delta T cell differentiation; negative regulation of erythrocyte differentiation; regulation of multicellular organism growth; citrate metabolic process; positive regulation of cell motility; positive regulation of natural killer cell mediated cytotoxicity; liver development; creatine metabolic process; cellular response to hormone stimulus; response to hypoxia; positive regulation of B cell differentiation; positive regulation of inflammatory response Disease: Growth Hormone Insensitivity With Immunodeficiency
Research Articles on STAT5B	**1.** Human STAT5b A630P mutation, like STAT5b F646S is prone to aggregation, as evidenced by its detection in the insoluble fraction, the presence of dimers and higher-order proto-aggregates.
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