

Recombinant Human STAT5B Protein, His-tagged

Cat. No. STAT5B-151H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human signal transducer and activator of transcription 5B(STAT5B)(NM_012448) protein, with a His tag, was expressed in human cells.
Species	Human
Source	Human Cells
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 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.
Form	Purified protein formulated in a sterile solution of TBS buffer, pH7.32, without any preservatives.
Molecular Mass	38.4kD
Endotoxin	Endotoxin level is < 0.1 ng/g of protein (<1EU /g)

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	>90% by SDS-PAGE gel and Coomassie Blue staining
Applications	Antigens, Western, ELISA and other in vitro binding or in vivo functional assays, and protein-protein interaction studies.

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

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