

Recombinant Human STAT5B Protein, MYC/DDK-tagged, C13 and N15-labeled

Cat. No. STAT5B-345H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	STAT5B MS Standard C13 and N15-labeled recombinant protein (NP_036580) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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. [provided by RefSeq, Jul 2008]
Molecular Mass	89.7 kDa
AA Sequence	MAVWIQAQQLQGEALHQMQLYQGQHFPIEVRHYLSQWIESQAWDSVDLDNPQENI

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KATQLLEGLVQELQKKAHQVGEDGFLLKIKLGHYATQLQNTYDRCPMELVRCIRHI
 LYNEQRLVREANNSSPAGSLADAMSQKHLQINQTFEELRLVTQDTENELKKLQQT
 QEYFIIQYQESLRIQAQFGPLAQLSPQERLSRETALQQKQVSLEAWLQREAQTLQQY
 RVELAEKHQKTLQLLRKQQTIILDELIQWKRRQQLAGNGGPPEGSLDVLQSWCEK
 LAEIIWQNRQQIRRAEHLCCQLPIPGPVEEMLAEVNATITDIISALVTSTFIEKQPPQVL
 KTQTKFAATVRLLVGGKLNVMNPPQVKATIISEQQAKSLLKNENTRNDYSGEILNN
 CCVMEYHQATGTLSAHFRNMSLKRIKRSDDRGAEVTEEFILFESQFSVGGNELV
 FQVKTLSPVVVIVHGSQDNNATATVLWDNAFAEPGRVPFAVPDKVLWPQLCEALN
 MKFKAQVQSNRGLTKENLVFLAQKLFNNSSSHLEDYSGLSVSWSQFNRENLPGRN
 YTFWQWFDGVMVLLKKHLKPHWNDGAILGFVNKQQAHDLLINKPDGTFLRFSDSE
 IGGITIAWKFDSQERMFWNLMPFTTRDFSIRSLADRLGDLNYLIYVFPDRPKDEVYSK
 YYTPVPCESATAKAVDGYVKPQIKQVPEFVNASADAGGGSATYMDQAPSPAVCP
 QAHYNMYPQNPDSVLDTDGDFLEDMDVARRVEELLGRPMDSQWIPHAQSTRTR
 PLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name STAT5B signal transducer and activator of transcription 5B [Homo sapiens (human)]

Official Symbol STAT5B

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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
SDS-PAGE	