

## Product datasheet for **TP309429L**

### STAT5B (NM\_012448) Human Recombinant Protein

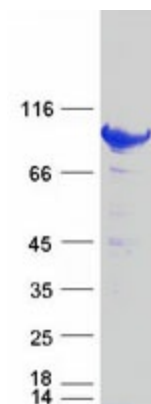
#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human signal transducer and activator of transcription 5B (STAT5B), 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC209429 representing NM_012448 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	<p>MAVWIQAQQLQGEALHQMQUALYGGHFPIEVRHYLSQWIESQAWDSVDLDNPQENIKATQLLEGLVQELQK KAEHQVGEDGFLKIKLGHYATQLQNTYDRCPMELVRCIRHILYNEQRLVREANNNGSSPAGSLADAMSQK HLQINQTFEELRLVTQDTENELKKLQQTQEYFIIQYQESLRIQAQFGPLAQLSPQERLSRETALQKQVS LEAWLQREAQTLQYRVELAEKHQKTLQLLRKQQTIILDDELIQWKRRQQLAGNGGPPPEGSLDVLQSWCE KLAEIWQNRQQIRRAEHLCCQLPIPGPVEEMLAEVNATITDIISALVTSTFIIIEKQPPQVLKTQTKFAA TVRLLVGGKLNVMNPPQVKATIISEQQAKSLLKNENTRNDYSGEILNCCVMYHQAATGTLSAHFRNMS LKRIKRSRRGAESVTEEKFTILFESQFSVGGNELVFQVKTLSPVWVIVHGSQDNNATATVLWDNAFAE PGRVPFVAVPDKVLWLPQLCEALNMKFKAQVSNRGLTKENLVFLAQKLFNNSSSHLEDYSGLSVSWSQFNR ENLPGRNYTFWQWFDGVMVLEKHLKPHWNDGAILGFVNKQQAHDLLINKPDGTFLLRFSDEIGGITIA WKFDSQERMFWNLMPTTRDFSRSLADRLGDLNLIYVFPDRPKDEVYSKYTPVPCESATAKAVDGYV KPQIKQVPEFVNASADAGGGSATYMDQAPSPAVCPQAHYNYMYPQNPDSVLDTDGDFDLEDTMDVARRVE ELLGRPMDSQWIPHAQS</p> <p><b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b></p>
Tag:	C-Myc/DDK
Predicted MW:	89.7 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.



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<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_036580</a>
<b>Locus ID:</b>	6777
<b>UniProt ID:</b>	<a href="#">P51692</a>
<b>RefSeq Size:</b>	5171
<b>Cytogenetics:</b>	17q21.2
<b>RefSeq ORF:</b>	2361
<b>Synonyms:</b>	GHSID2; STAT5
<b>Summary:</b>	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]
<b>Protein Families:</b>	Druggable Genome, ES Cell Differentiation/IPS, Stem cell relevant signaling - JAK/STAT signaling pathway, Transcription Factors
<b>Protein Pathways:</b>	Acute myeloid leukemia, Chemokine signaling pathway, Chronic myeloid leukemia, ErbB signaling pathway, Jak-STAT signaling pathway, Pathways in cancer

**Product images:**

Coomassie blue staining of purified STAT5B protein (Cat# [TP309429]). The protein was produced from HEK293T cells transfected with STAT5B cDNA clone (Cat# [RC209429]) using MegaTran 2.0 (Cat# [TT210002]).