



# Recombinant Rat Signal transducer and activator of transcription 5B (Stat5b)

<b>Product Code</b>	CSB-MP022815RA
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P52632
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	MAMWIAQQL QGDALHQMMA LYGQHFPPIEV RHYLSQWIES QAWDSIDLND PQENIKATQL LEGLVQELQK KAEHQVGEDG FLLKIKLGHY ATQLQNTYDR CPMELVRCIR HILYNEQRLV REANNSSPA GSLADAMSQK HLQINQTFEE LRLITQDTE ELKKLQQTQE YFIIQYQESL RIQAQFAQLA QLNPQERMRS ETALQQKQVS LETWLQREAQ TLQQYRVELA EKHQKTLQLL RKQQTIILDD ELIQWKRRQQ LAGNGGPPEG SLDVLQSWCE KLAEIWQNR QQIRRLHLHC QQLPIGPVE EMLAEVNATI TDIISALSTS TFIIEKQPPQ VLKTQTKFAA TVRLLVGGKL NVHMNPPQVK ATIISEQQA SLLKNENTRN DYSGEILNNC CVMEYHQATG TLSAHFRNMS LKRIKRSRR GAESVTEEF TILFDSQFSV GGNELVFQVK TSLPVVVIV HGSQDNNATA TVLWDNAFRE PGRVPFAVPD KVLWPQLCEA LNMKFKAEVQ SNRGLTKENL VFLAQKLFNS SSNHLEDYNS MSVSWSQFNR ENLPGRNYTF WQWFDGVM EV LKKHLKPHWN DGAILGFV NK QQAHDLLINK PDGTFLRFS DSEIGGITIA WKFDSQERMF WNLMPFTTRD FSIRSLADRL GDLNYLIYVF PDRPKDEVYS KYTTPVPCER ATAKAADGYV KPQIKQVPE FVNASTDAGS GATYMDQAPS PVVCPQAHYN MYPQNPDSVL DTDGDFDLED TMDVARRVEE LLGRPMDSQW IPHAQS
<b>Source</b>	Mammalian cell
<b>Target Names</b>	Stat5b
<b>Protein Names</b>	Recommended name: Signal transducer and activator of transcription 5B
<b>Expression Region</b>	1-786
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full length protein
<b>Target Details</b>	This protein 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.

---

**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

---

**Shelf Life**

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.