

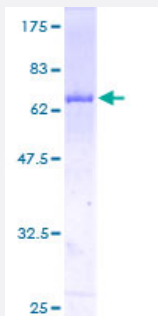
Full-Length

STAT5B (Human) Recombinant Protein (P01)

Catalog # H00006777-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human STAT5B full-length ORF (AAH20868, 1 a.a. - 390 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MAVWIAQQQLQGEALHQMQUALYGQHFPIEVRHYLSQWIESQAWDSVDLDNPQENIKATQLLEGL
VQELQKKAEHQVGEDGFLKIKLGHYATQLQNTYDRCPMELVRCIRHILYNEQRLVREANNNGSSPA
GSLADAMSQKHLQINQTFEELRLVTQDTENELKKLQQTQEYFIQYQESLRQAQFGPLAQLSPQER
LSRETALQQKQVSLEAWLQREAQTLQQYRVELAEKHQKTLQLLRKQQTIILDDELIQWKRRQQLA
GNGGPPEGSLDVLQSWCEKLAEIWQNRQQIRRAEHLCCQLPIPGPVEEMLAEVNATITDIISALVT
STFIIEKQPPQVLKTQTKFAATVRLLVGGKLVHNMNPPQVKATIIEQQAKSLLKNENTRK

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

68.42

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — STAT5B

Entrez GeneID [6777](#)

GeneBank Accession# [BC020868](#)

Protein Accession# [AAH20868](#)

Gene Name STAT5B

Gene Alias STAT5

Gene Description signal transducer and activator of transcription 5B

Omim ID [245590 604260](#)

Gene Ontology [Hyperlink](#)

Gene Summary

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]

Other Designations transcription factor STAT5B

Pathway

- [Acute myeloid leukemia](#)
- [Chemokine signaling pathway](#)
- [Chronic myeloid leukemia](#)
- [ErbB signaling pathway](#)
- [Jak-STAT signaling pathway](#)
- [Pathways in cancer](#)

Disease

- [Birth Weight](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Cardiovascular Diseases](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Glioblastoma](#)
- [Glioma](#)
- [Leukemia](#)
- [Meningeal Neoplasms](#)
- [Meningioma](#)
- [Tooth Abnormalities](#)