

Product datasheet for **AM06481SU-N**

STAT5B Mouse Monoclonal Antibody [Clone ID: 5B3]

Product data:

| | |
|-------------------------|---|
| Product Type: | Primary Antibodies |
| Clone Name: | 5B3 |
| Applications: | ELISA, WB |
| Recommended Dilution: | Western Blot: 1/500 - 1/2000. ELISA: 1/10000. |
| Reactivity: | Human |
| Host: | Mouse |
| Isotype: | IgG1 |
| Clonality: | Monoclonal |
| Immunogen: | Purified recombinant fragment of human STAT5B expressed in E. Coli. |
| Specificity: | This antibody reacts to STAT5B. |
| Formulation: | State: Ascites State: Ascitic fluid containing 0.03% sodium azide. |
| Conjugation: | Unconjugated |
| Storage: | Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. |
| Stability: | Shelf life: one year from despatch. |
| Predicted Protein Size: | 90 kDa |
| Gene Name: | signal transducer and activator of transcription 5B |
| Database Link: | Entrez Gene 6777 Human P51692 |



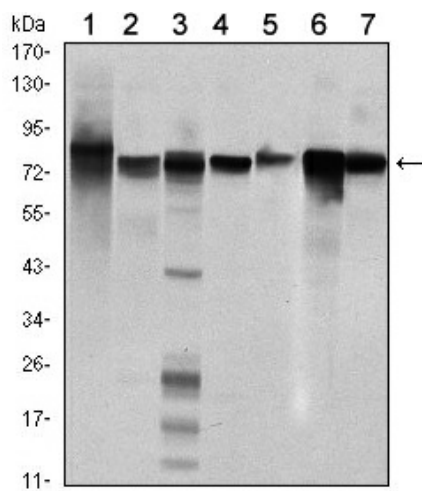
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Background:

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.

Synonyms:

STAT-5B

Product images:

Western blot analysis using STAT5B mouse mAb against HeLa (1), K562 (2), NIH/3T3 (3), C6 (4), HEK293 (5), Jurkat (6) and HL-60 (7) cell lysate.