

## Product datasheet for **TA322406S**

### STAT5B Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC
Recommended Dilution:	IHC: 50-100 Positive control: Human prostate cancer Predicted cell location: Cytoplasm
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Fusion protein corresponding to a region derived from 46-351 amino acids of Human Signal transducer and activator of transcription 5B
Formulation:	PBS pH7.3, 0.05% NaN <sub>3</sub> , 50% glycerol
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	signal transducer and activator of transcription 5B
Database Link:	<a href="#">NP_036580</a> <a href="#">Entrez Gene 20851 Mouse</a> <a href="#">Entrez Gene 25126 Rat</a> <a href="#">Entrez Gene 6777 Human</a> <a href="#">P51692</a>



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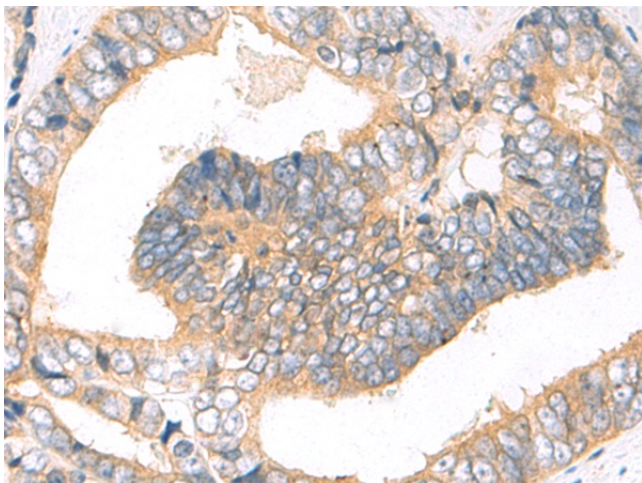
**Background:** The protein encoded by this gene is a member of the STAT family of transcription factors. In response to cytokines and growth factors; STAT family members are phosphorylated by the receptor associated kinases; and then form homo- or heterodimers that translocate to the cell nucleus where 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:** STAT5

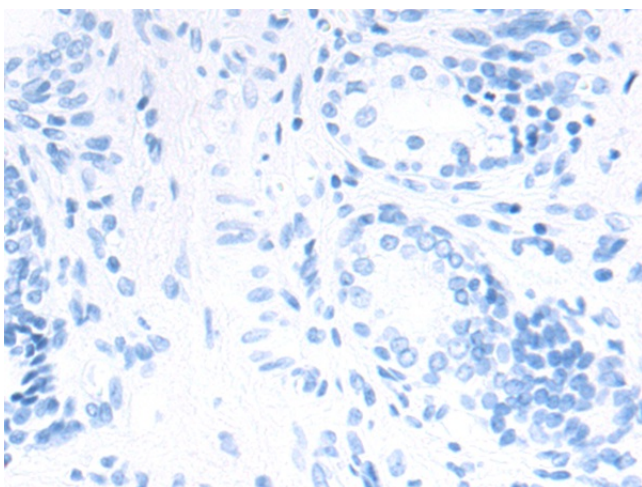
**Protein Families:** Druggable Genome, ES Cell Differentiation/IPS, Stem cell relevant signaling - JAK/STAT signaling pathway, Transcription Factors

**Protein Pathways:** Acute myeloid leukemia, Chemokine signaling pathway, Chronic myeloid leukemia, ErbB signaling pathway, Jak-STAT signaling pathway, Pathways in cancer

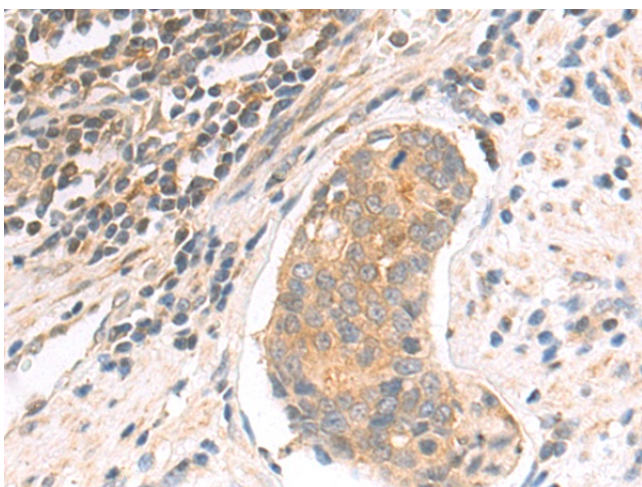
**Product images:**



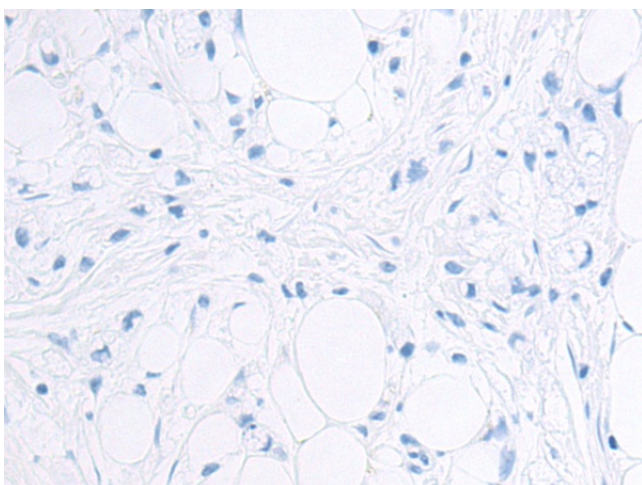
Immunohistochemistry of paraffin-embedded Human prostate cancer tissue using [TA322406] (STAT5B Antibody) at dilution 1/50 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human prostate cancer tissue using [TA322406] (STAT5B Antibody) at dilution 1/50, treated with fusion protein. (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human gastric cancer tissue using [TA322406] (STAT5B Antibody) at dilution 1/50 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human gastric cancer tissue using [TA322406] (STAT5B Antibody) at dilution 1/50, treated with fusion protein. (Original magnification:  $\times 200$ )