

Rabbit STAT5B Polyclonal Antibody | anti-STAT5B antibody

STAT5B Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA325874	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

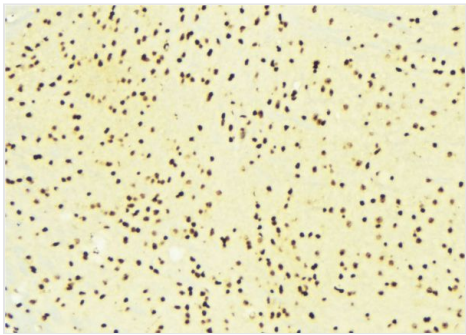
PRODUCT SYNONYMS

STAT5B; Polyclonal Antibody; STAT5B Antibody; Signal transducer and activator of transcription 5B; STA5B_HUMAN; STAT5; Stat5b; Transcription factor STAT5B; anti-STAT5B antibody

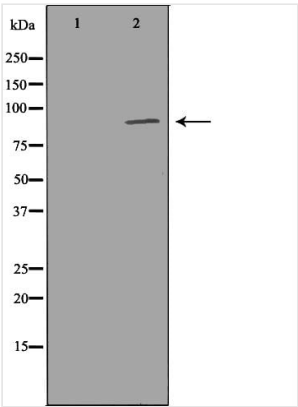
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	STAT5B antibody detects endogenous levels of total STAT5B
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	787
Applicable Applications for anti-STAT5B antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human STAT5B
Subcellular Location	Cytoplasm. Nucleus. Translocated into the nucleus in response to phosphorylation.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA325874 at 1/100 staining Mouse brain tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of RAW264.7 cell lysate, using STAT5B Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-STAT5B antibody	Description: Stat5 is activated in response to a wide variety of ligands including IL-2, GM-CSF, growth hormone and prolactin. Phosphorylation at Tyr694 is obligatory for Stat5 activation (1, 2). This phosphorylation is mediated by Src upon erythropoietin stimulation (3). Stat5 is constitutively active in some leukemic cell types (4). Phosphorylated Stat5 is found in some endothelial cells treated with IL-3, which suggests its involvement in angiogenesis and cell motility (5). Stat5a and Stat5b are independently regulated and activated in various cell types. For instance, interferon treatment predominantly activates Stat5a in U-937 cells and Stat5b in HeLa cells (6). Function: Carries out a dual signal transduction and activation of transcription. Mediates cellular responses to the cytokine KITLG/SCF and other growth factors. Binds to the GAS element and activates PRL-induced transcription. Positively regulates hematopoietic/erythroid differentiation. Subunit Structure: Forms a homodimer or a heterodimer with a related family member. Binds NR3C1 (By similarity). Interacts with NCOA1 (PubMed:12954634). Interacts with NMI (PubMed:9989503). Interacts with SOCS7 (PubMed:15677474). Interacts (via SH2 domain) with INSR (PubMed:9428692). Interacts with CPEB3; this inhibits STAT5B-mediated transcriptional activation (PubMed:20639532). Post-translational Modifications: Tyrosine phosphorylated in response to signaling via activated KIT, resulting in translocation to the nucleus. Tyrosine phosphorylated in response to signaling via activated FLT3; wild-type FLT3 results in much weaker phosphorylation than constitutively activated mutant FLT3. Alternatively, can be phosphorylated by JAK2. Phosphorylation at Tyr-699 by PTK6 or HCK leads to an increase of its transcriptional activity. Similarity: Belongs to the transcription factor STAT family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	21618344
NCBI GeneID	6777
NCBI Accession #	NP_036580.2
NCBI GenBank Nucleotide #	NM_012448.3
UniProt Accession #	P51692; Q8WWS8
Molecular Weight	Observed: 90 kDa Predicted: 90 kDa
NCBI Official Full Name	signal transducer and activator of transcription 5B
NCBI Official Synonym Full Names	signal transducer and activator of transcription 5B
NCBI Official Symbol	STAT5B
NCBI Official Synonym Symbols	STAT5

NCBI Protein Information	signal transducer and activator of transcription 5B
UniProt Protein Name	Signal transducer and activator of transcription 5B
UniProt Gene Name	STAT5B

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/stat5b-antibody-immunohistochemistry-western-blot-elisa/325874>