

Rabbit STAT5B Polyclonal Antibody | anti-STAT5B antibody

Phospho-STAT5B (Ser731) Antibody

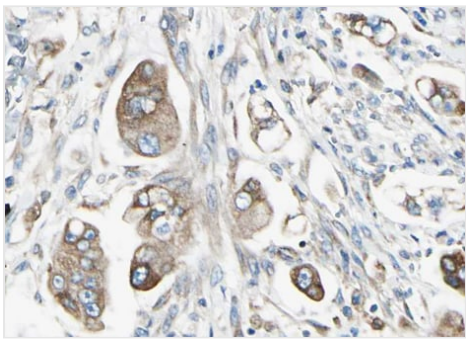
CATALOG # AAA321646	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA, Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

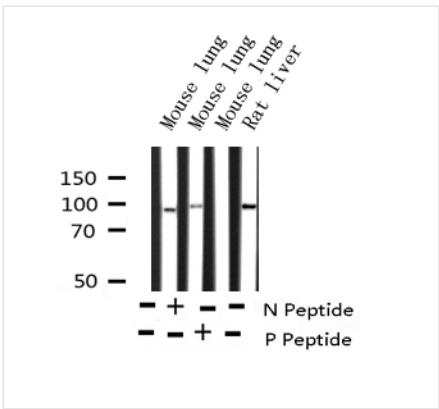
STAT5B; Polyclonal Antibody; Phospho-STAT5B (Ser731) Antibody; Signal transducer and activator of transcription 5B; STA5B_HUMAN; STAT5; Stat5b; Transcription factor STAT5B; anti-STAT5B antibody

PRODUCT SPECIFICATIONS

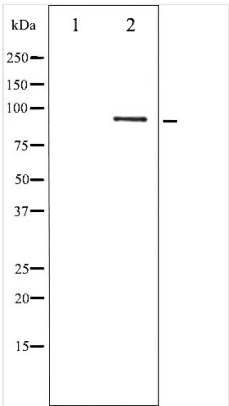
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-STAT5B (Ser731) antibody detects endogenous levels of STAT5B only when phosphorylated at Serine 731
Purity/Purification	From purified rabbit serum by affinity purification via sequential chromatography on phospho-and non-phospho-peptide affinity columns.
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 around the phosphorylation site of Serine 731
Subcellular Location	Cytoplasm. Nucleus. Translocated into the nucleus in response to phosphorylation.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%)
Conjugation	Unconjugated
Epitope	Phospho Ser731
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IHC (Immunohistochemistry)
AAA321646 at 1/100 staining human Stomach cancer tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue 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 Phospho-STAT5B (Ser731) expression in various lysates



WB (Western Blot)
Western blot analysis of STAT5B phosphorylation expression in RAW264.7 whole cell lysates, The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-STAT5B antibody

Description: 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.

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.

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/321646>