abcam

Product datasheet

Anti-STAT5b (phospho S731) antibody ab52211

7 References 3 Images

Overview

Product name	Anti-STAT5b (phospho S731) antibody
Description	Rabbit polyclonal to STAT5b (phospho S731)
Host species	Rabbit
Tested applications	**Suitable for:** ICC/IF, WB, IHC-P
Species reactivity	**Reacts with:** Mouse, Human
Immunogen	Synthetic peptide corresponding to Human STAT5b aa 650-750 (phospho S731). Database link: **P51692**

General notes

ab52211 detects endogenous levels of STAT5B but only when phosphorylated at serine 731 (human) or serine 730 (mouse and rat).

The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at 4°C (up to 6 months). Store at -20°C.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: PBS, 50% Glycerol (glycerin, glycerine), 0.87% Sodium chloride Without Mg+2 and Ca+2
Purity	Immunogen affinity purified
Primary antibody notes	ab52211 detects endogenous levels of STAT5B but only when phosphorylated at serine 731 (human) or serine 730 (mouse and rat).
Clonality	Polyclonal

Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab52211 in the following tested applications.

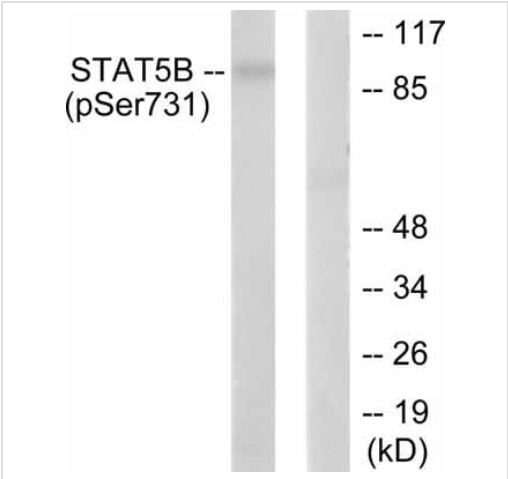
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		Use a concentration of 1 - 5 µg/ml.
WB		1/500 - 1/1000. Detects a band of approximately 90 kDa (predicted molecular weight: 90 kDa).
IHC-P		Use at an assay dependent concentration.

Target

Function	Carries out a dual function: 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.
Involvement in disease	Growth hormone insensitivity with immunodeficiency
Sequence similarities	Belongs to the transcription factor STAT family. Contains 1 SH2 domain.
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. Dephosphorylation on tyrosine residues by PTPN2 negatively regulates prolactin signaling pathway.
Cellular localization	Cytoplasm. Nucleus. Translocated into the nucleus in response to phosphorylation.

Images

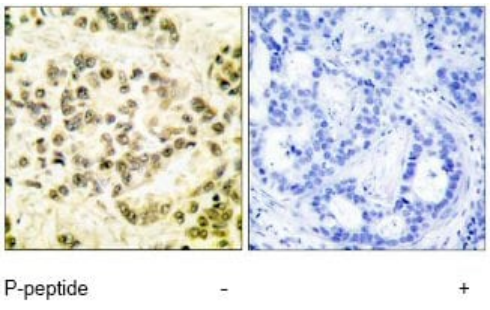


Western blot - Anti-STAT5b (phospho S731) antibody (ab52211)

All lanes : Anti-STAT5b (phospho S731) antibody (ab52211) at 1/500 dilution

Lane 1 : Extracts from RAW264.7 cells
treated with EGF (200ng/ml, 30min)
Lane 2 : Extracts from RAW264.7 cells
treated with EGF (200ng/ml, 30min), ab52211 was pre-incubated with immunising (blocking) peptide

Predicted band size: 90 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-STAT5b (phospho S731) antibody (ab52211)

Paraffin-embedded human breast carcinoma tissue stained for STAT5b (phospho S731), using ab52211 (1/100). The right hand panel represents a negative control where ab52211 was pre-incubated with the immunising (blocking) peptide.

Immunocytochemistry/ Immunofluorescence - Anti-STAT5b (phospho S731) antibody (ab52211)

ICC/IF image of ab52211 stained HeLa cells. The cells were 4% PFA fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab52211, 1µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

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