abcam

Product datasheet

Anti-STAT5a (phospho S780) antibody ab30649

3 Images

Overview

Product name	Anti-STAT5a (phospho S780) antibody
Description	Rabbit polyclonal to STAT5a (phospho S780)
Host species	Rabbit
Specificity	ab30649 detects endogenous levels of STAT5A only when phosphorylated at Serine 780.
Tested applications	**Suitable for:** ICC/IF, WB, ELISA, IHC-P
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse, Rat
Immunogen	Synthesized phosphopeptide derived from human STAT5A around the phosphorylation site of Serine 780.
Positive control	IHC: breast carcinoma WB: HeLa cells

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservative: 0.02% Sodium Azide Constituents: 50% Glycerol, PBS (without Mg^{++} and Ca^{++}), 150mM Sodium chloride, pH 7.4
Purity	Immunogen affinity purified
Purification notes	ab30649 was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site
Clonality	Polyclonal
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab30649** in the following tested applications.

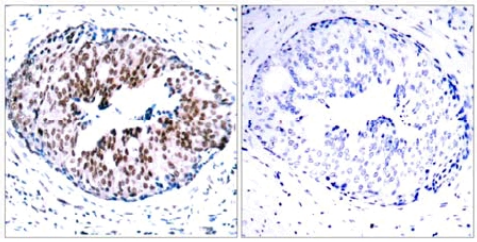
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		Use a concentration of 1 µg/ml.
WB		1/500 - 1/1000. Detects a band of approximately 91 kDa (predicted molecular weight: 91 kDa).
ELISA		1/10000.
IHC-P		Use at an assay dependent concentration.

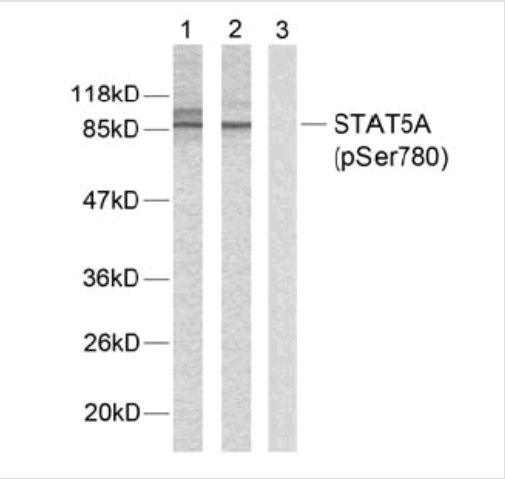
Target

Function	Carries out a dual function: signal transduction and activation of transcription. Binds to the GAS element and activates PRL-induced transcription.
Sequence similarities	Belongs to the transcription factor STAT family. Contains 1 SH2 domain.
Post-translational modifications	Tyrosine phosphorylated in response to IL-2, IL-3, IL-7, IL-15, GM-CSF, growth hormone, prolactin, erythropoietin and thrombopoietin. Tyrosine phosphorylation is required for DNA-binding activity and dimerization. Serine phosphorylation is also required for maximal transcriptional activity.
Cellular localization	Cytoplasm. Nucleus. Translocated into the nucleus in response to phosphorylation.

Images



Immunohistochemistry (Paraffin-embedded sections) - STAT5a (phospho S780) antibody (ab30649)

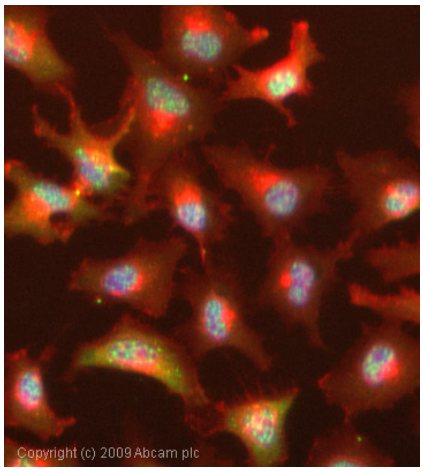


Western blot - STAT5a (phospho S780) antibody (ab30649)

All lanes : Anti-STAT5a (phospho S780) antibody (ab30649)

Lane 1 : HeLa cells extract
Lane 2 : HeLa cells extract with synthesized non-phosphopeptide
Lane 3 : HeLa cells extract with synthesized phosphopeptide

Predicted band size: 91 kDa
Observed band size: 91 kDa



Immunocytochemistry/ Immunofluorescence- STAT5a (phospho S780) antibody(ab30649)

ICC/IF image of ab30649 stained HeLa cells. The cells were 100% methanol fixed (5 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 (ab30649, 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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