

Anti-STAT5b Antibody
Catalog # ABO11149**Specification****Anti-STAT5b Antibody - Product Information**

| | |
|-------------------|------------------------|
| Application | WB, IHC |
| Primary Accession | P51692 |
| Host | Rabbit |
| Reactivity | Human, Mouse, Rat |
| Clonality | Polyclonal |
| Format | Lyophilized |

Description

Rabbit IgG polyclonal antibody for Signal transducer and activator of transcription 5B(STAT5B) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-STAT5b Antibody - Additional Information

Gene ID 6777

Other Names

Signal transducer and activator of transcription 5B, STAT5B

Calculated MW

89866 MW KDa

Application Details

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Mouse, Rat, By Heat
Western blot, 0.1-0.5 µg/ml, Human, Rat, Mouse

Subcellular Localization

Cytoplasm . Nucleus . Translocated into the nucleus in response to phosphorylation. .

Protein Name

Signal transducer and activator of transcription 5B

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Thimerosal, 0.05mg NaN₃.

Immunogen

A synthetic peptide corresponding to a sequence at the C-terminus of human STAT5b(767-787aa RRVEELLGRPMDSQWIPHAQS), identical to the related rat and mouse sequences.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Sequence Similarities

Belongs to the transcription factor STAT family.

Anti-STAT5b Antibody - Protein Information

Name STAT5B

Function

Carries out a dual function: signal transduction and activation of transcription (PubMed:29844444). 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.

Cellular Location

Cytoplasm. Nucleus. Note=Translocated into the nucleus in response to phosphorylation.

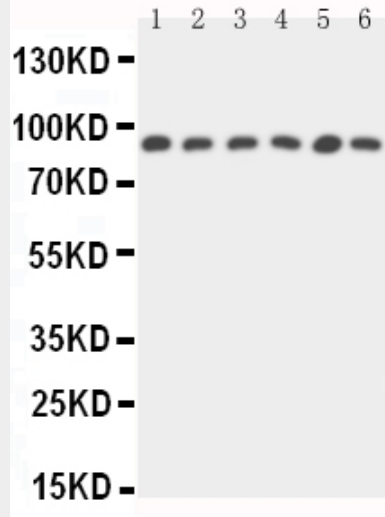
Anti-STAT5b Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

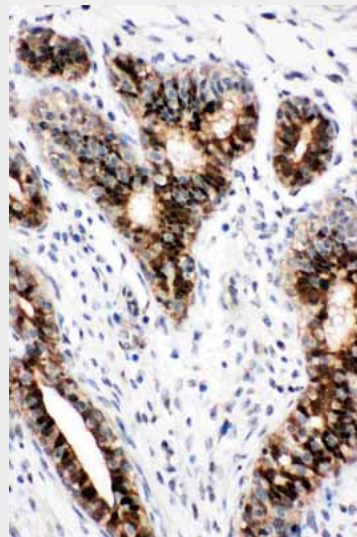
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-STAT5b Antibody - Images





Anti-STAT5b antibody, ABO11149, Western blotting
Lane 1: Rat Intestine Tissue Lysate
Lane 2: Rat Kidney Tissue Lysate
Lane 3: HELA Cell Lysate
Lane 4: A549 Cell Lysate
Lane 5: MM231 Cell Lysate
Lane 6: COLO320 Cell Lysate



Anti-STAT5b antibody, ABO11149, IHC(P)
IHC(P): Human Mammary Cancer Tissue

Anti-STAT5b Antibody - Background

STAT5B(Signal transducer and activator of transcription 5B) is a protein that in humans is encoded by the STAT5B gene. STAT5B orthologs have been identified in most placentals for which complete genome data are available. By FISH, Lin et al.(1996) mapped STAT5B to 17q11.2. 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(APML). The dysregulation of the signaling pathways mediated by this protein may be the cause of the APML.