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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 r˚Constitution, 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.

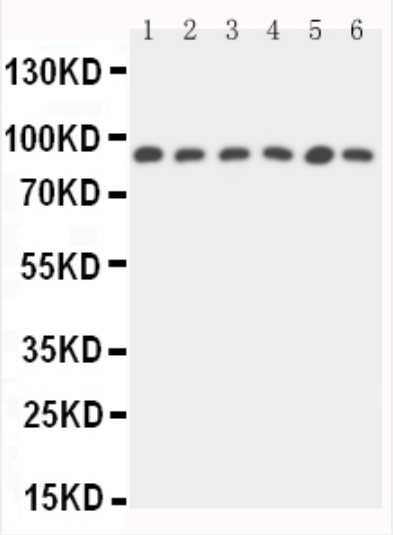
Anti-STAT5b Antibody - Protocols

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

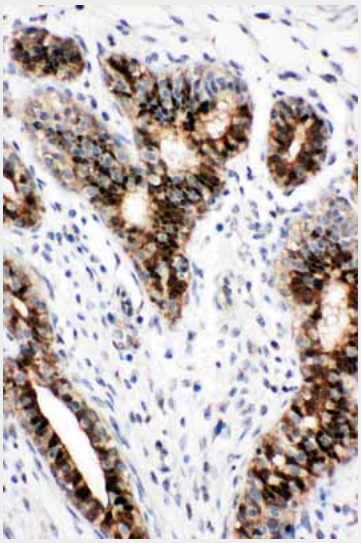
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-STAT5b Antibody - Images

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Anti-STAT5b antibody, ABO11149, Western blottingLane 1: Rat Intestine Tissue LysateLane 2: Rat Kidney Tissue LysateLane 3: HELA Cell LysateLane 4: A549 Cell LysateLane 5: MM231 Cell LysateLane 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.