

Anti-STAT5b Antibody

Catalog # ABO11149

Product Information

Application	WB, IHC-P
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.

Additional Information

Gene ID	6777
Other Names	Signal transducer and activator of transcription 5B, STAT5B
Calculated MW	89866
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. .
Source	Eukaryota
Protein Name	Signal transducer and activator of transcription 5B
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ .
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.

Belongs to the transcription factor STAT family.

Sequence Similarities

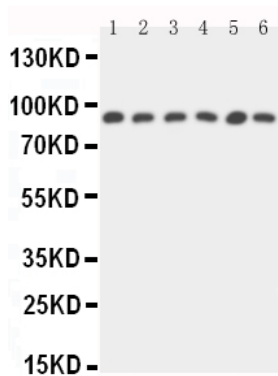
Protein Information

Name	STAT5B (HGNC:11367)
Function	Signal transducer and transcription activator that mediates cellular responses to cytokines, hormones and growth factors (PubMed: 29844444 , PubMed: 9188471). Binds to the GAS element and activates PRL-induced transcription. Positively regulates hematopoietic/erythroid differentiation. Involved in the oncostatin-M- mediated signaling pathway through type II OSM receptor complex (heterodimers composed of OSMR and IL6ST) (PubMed: 9188471).
Cellular Location	Cytoplasm. Nucleus. Note=Translocated into the nucleus in response to phosphorylation.

Background

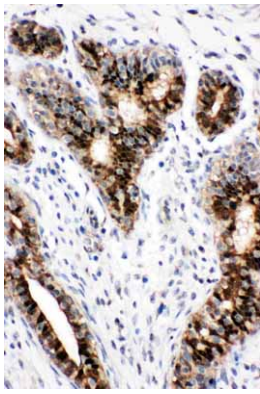
STAT5B(Signal transducer and activator of transcription 5B) is a protein that in humans is encoded by the STAT5B gene. STAT5B orthologs have been identified in most placentals for which complete genome data are available. By FISH, Lin et al.(1996) mapped STAT5B to 17q11.2. The protein encoded by this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

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



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