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Anti-STAT5b Picoband Antibody

Catalog # ABO12200

Product Information

Application	WB
Primary Accession	P51692
Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Signal transducer and activator of transcription 5B (STAT5B) detection. Tested with WB in Human;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	Western blot, 0.1-0.5 □g/ml, Human, Rat
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 Na2HPO4, 0.05mg NaN3.
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human STAT5b (675-703aa KDEVYSKYYTPVPCESATAKAVDGYVKPQ), different from the related mouse and rat sequences by two amino acids.
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.

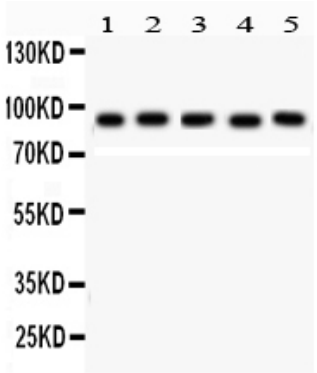
Protein Information

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 Picoband antibody, ABO12200, Western blottingAll lanes: Anti STAT5b (ABO12200) at 0.5ug/mlLane 1: Rat Lung Tissue Lysate at 50ugLane 2: Rat Kidney Tissue Lysate at 50ugLane 3: PANC Whole Cell Lysate at 40ugLane 4: MM231 Whole Cell Lysate at 40ugLane 5: COLO320 Whole Cell Lysate at 40ugPredicted bind size: 90KDObserved bind size: 90KD