



STAT5B Rabbit mAb

Catalog No	YP-rAb-17592
Isotype	IgG
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IF,IP,ELISA
Gene Name	STAT5B
Protein Name	Signal transducer and activator of transcription 5B
Purification Process	Protein A
Specificity	Endogenous
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Rabbit,IgG
Dilution	IHC 1:1000-1:5000; WB 1:2000-1:10000; IF 1:200-1:1000; ELISA 1:5000-1:20000; IP 1:50-1:200; Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	-15° C to -25° C/1 year(Do not lower than -25° C)
Synonyms	Signal transducer and activator of transcription 5B
Observed Band	90kD
Calculated Molecular Weight	90kD
Cell Pathway	Cytoplasm, Nucleus
Tissue Specificity	Brain,Epithelium,Lymph,Placenta,
Function	Disease:Defects in STAT5B are the cause of Laron type dwarfism II (LTD2) [MIM:245590]; also known as Laron syndrome type II or Laron syndrome due to a post-receptor defect. The phenotypic features are consistent with growth hormone deficiency in the presence of normal to elevated circulating concentrations of growth hormone, and resistance to hexogeneous hormone therapy.,Function:Carries out a dual Function: signal transduction and activation of transcription. Binds to the GAS element and activates PRL-induced transcription.,online information:STAT5 entry,online information:STAT5B mutation db,PTM:Tyrosine phosphorylated.,similarity:Belongs to the transcription factor STAT family.,similarity:Contains 1 SH2 domain.,subcellular location:Translocated into the nucleus in response to phosphorylation.,subunit:Forms a homodimer or a heterodimer with a related family member. Binds NR3C1 (By similarity). Interacts





with NCOA1, NMI and SOCS7.,

Background

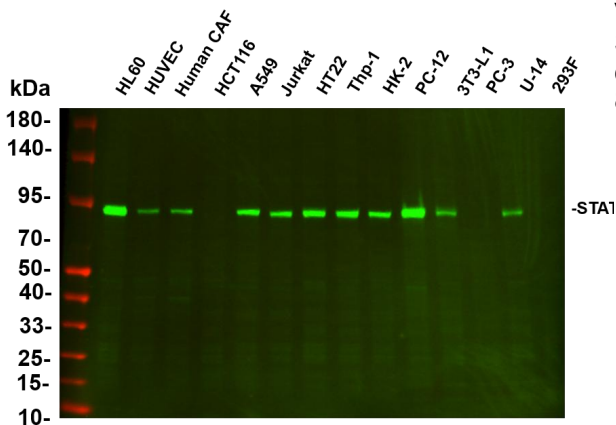
The protein encoded by this gene is a member of the STAT family of transcription factors. In response to cytokines and growth factors, STAT family members are phosphorylated by the receptor associated kinases, and then form homo- or heterodimers that translocate to the cell nucleus where they act as 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 (APLL). The dysregulation of the signaling pathways mediated by this protein may be the cause of the APLL. [provi

matters needing attention

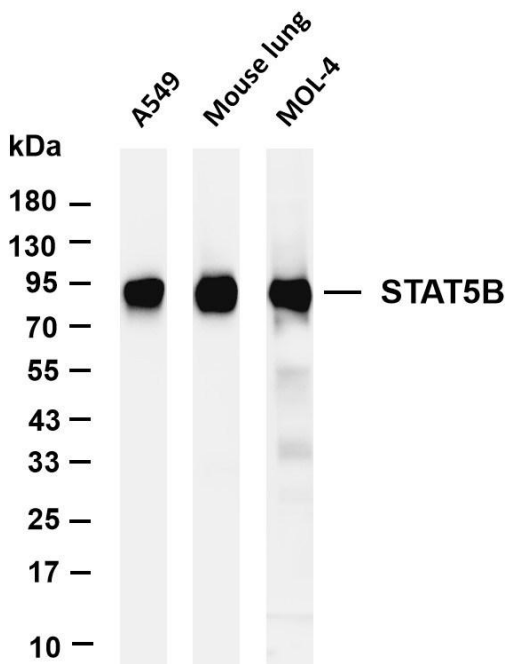
Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

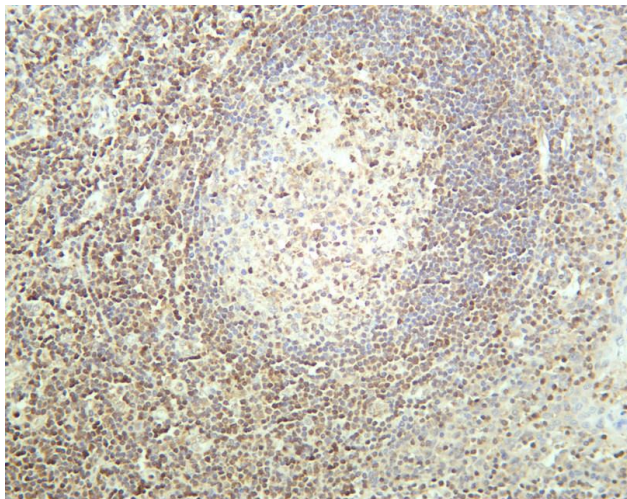


Various whole cell lysates were separated by 4-20% SDS-PAGE, and the primary antibody was used at 4°C, over night with a 1:5000 dilution. The Dylight 800-conjugated Goat anti-Rabbit antibody



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-STAT5B antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: A549 Lane 2: Mouse lung Lane 3: MOL-4 Predicted band size: 90kDa Observed band size: 90kDa





Human tonsil was stained with anti-STAT5B rabbit antibody

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