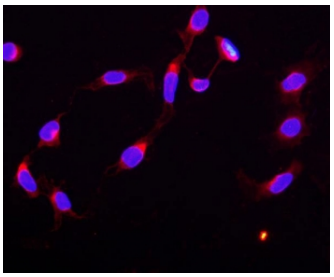
STAT5b Antibody (R32128)

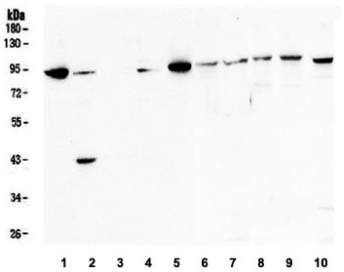
Catalog No.	Formulation	Size
R32128	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

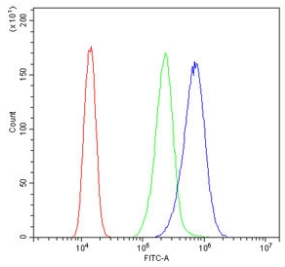
Availability	1-3 business days
Species Reactivity	Human, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
UniProt	P51692
Applications	Western blot: 0.1-0.5ug/ml Immunofluorescence: 2-4ug/ml Flow cytometry: 1-3ug/million cells
Limitations	This STAT5b antibody is available for research use only.



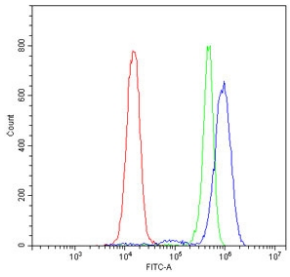
Immunofluorescent staining of human U-2 OS cells with STAT5b antibody (red) and DAPI nuclear stain (blue).



Western blot testing of 1) human K562, 2) human HEK293, 3) human PANC-1, 4) human SW620, 5) human SGC-7901, 6) rat lung, 7) rat liver, 8) mouse spleen, 9) mouse spleen and 10) mouse lung lysate with STAT5b antibody. Predicted/observed molecular weight ~90 kDa.



Flow cytometry testing of human A431 cells with STAT5b antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= STAT5b antibody.



Flow cytometry testing of human Jurkat cells with STAT5b antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= STAT5b antibody.

Description

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.

Application Notes

Optimal dilution of the STAT5b antibody should be determined by the researcher.

Immunogen

Amino acids KDEVYSKYYTPVPCESATAKAVDGYVKPQ of human STAT5b were used as the immunogen for the STAT5b antibody.

Storage

After reconstitution, the STAT5b antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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