STAT5a Rabbit mAb

Catalog No: #48973

Package Size: #48973-1 50ul #48973-2 100ul

Signalway Antibody
Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

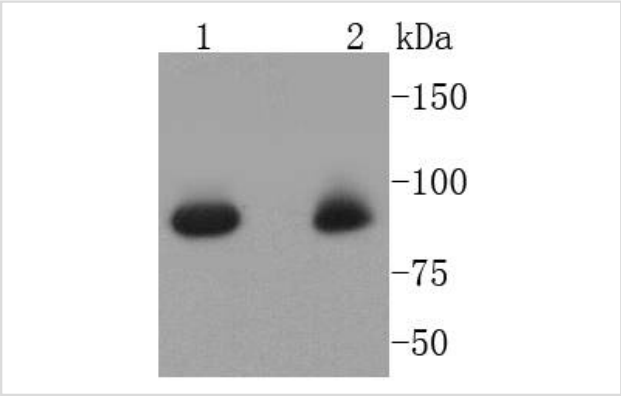
Description

Product Name	STAT5a Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal
Clone No.	SC66-09
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC, IP, FC
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Conjugates	Unconjugated
Other Names	Mammary gland factor antibody MGF antibody Signal transducer and activator of transcription 5A antibody STA5A_HUMAN antibody STAT 5 antibody STAT 5A antibody STAT5 antibody STAT5A antibody
Accession No.	Swiss-Prot#:P42229
Calculated MW	92 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

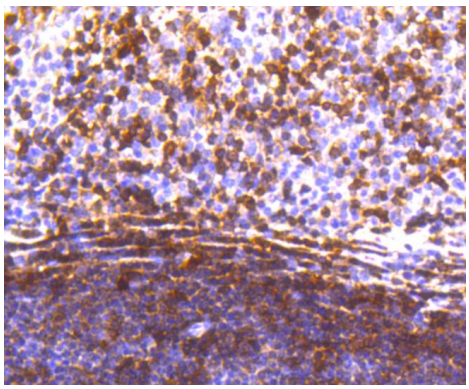
Application Details

WB: 1:1,000-1:2,000 IHC: 1:50-1:200 ICC: 1:50-1:200FC: 1:50-1:100

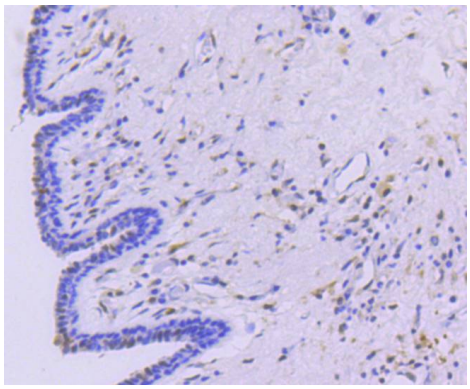
Images



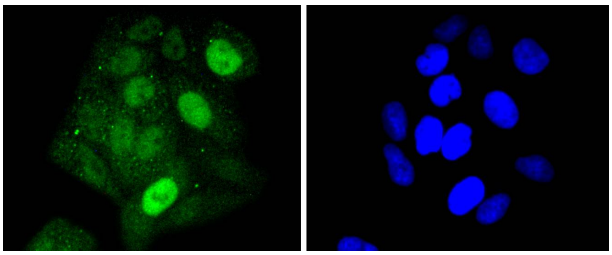
Western blot analysis of STAT5a on different lysates using anti-STAT5a antibody at 1/1,000 dilution. Positive control:
Lane 1: Hela
Lane 2: K562



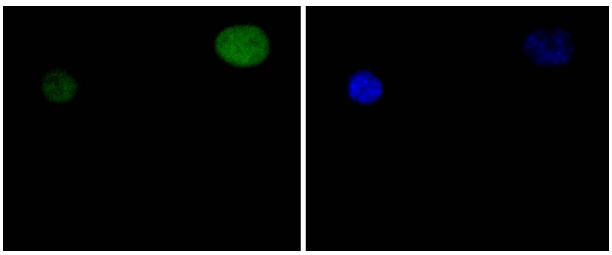
Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-STAT5a antibody. Counter stained with hematoxylin.



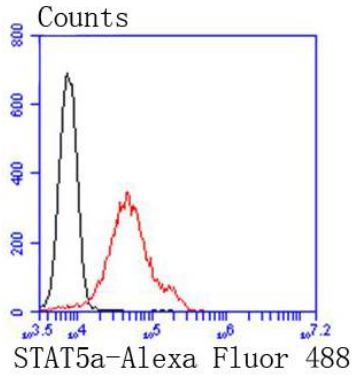
Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using anti-STAT5a antibody. Counter stained with hematoxylin.



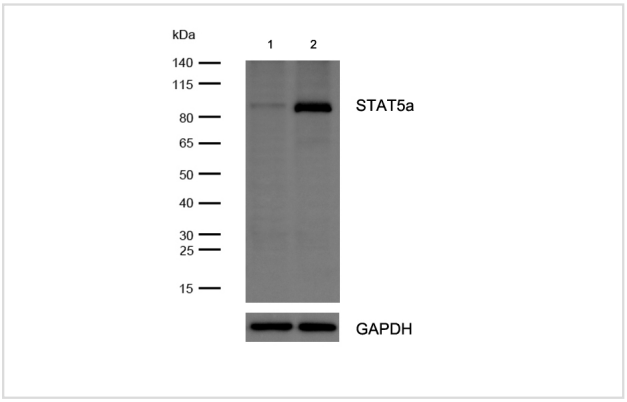
ICC staining STAT5a in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining STAT5a in C2C12 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of Jurkat cells with STAT5a antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.



All lanes : STAT5a Rabbit mAb at 1/1k dilution Lane 1 : STAT5a knockout HAP1 cell lysate Lane 2 : Wild-type HAP1 cell lysate Lysates/proteins at 20 µg per lane.

Background

Signal transducer and activator of transcription 5A (Stat5a) and Stat5b, which share 96% homology, undergo receptor tyrosine kinase or G protein-coupled receptor-dependent phosphorylation in response to cytokines or growth factors, and then form homo- or heterodimers that translocate to the nucleus, where they initiate transcription. Activation of Stat5a via IL-2, IL-3, IL-7/ GM-CSF, erythropoietin, thrombopoietin and growth hormones influences proliferation, differentiation and apoptosis in lymphohematopoietic cells. Phos-phorylation of Stat5a at Ser127/Ser128 and Ser779 are contigent on ErbB-4-mediated activation of Stat5a. Activation of Stat5b via IL-2, IL-4, CSF-1 and growth hormones influences TCR signaling, apoptosis, adult mammary gland development and sexual dimorphism of liver gene expression. Stat5b is the major liver-expressed Stat5 form that has been shown to fuse with the retin-oic acid receptor a gene in acute promyelocytic leukemias (APLL). Stat5a/b null mice have severely impaired lymphoid development and differentiation.

References

Note: This product is for in vitro research use only and is not intended for use in humans or animals.