Product Datasheet

Stat5(Phospho-Y694) Rabbit mAb

Catalog No: #13386

Package Size: #13386-1 50ul #13386-2 100ul

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

Description

Product Name	Stat5(Phospho-Y694) Rabbit mAb
Host Species	Rabbit
Clonality	Monoclonal
Clone No.	SC05-31
Purification	ProA affinity purified
Applications	WB;ICC/IF;IHC
Species Reactivity	Human;Mouse
Immunogen Description	Synthetic phospho-peptide corresponding to residues surrounding Tyr694 of human Stat5.
Conjugates	Unconjugated
Other Names	MGF antibody Signal transducer and activator of transcription 5A antibody Signal Transducer and Activator of Transcription 5B antibody STA5A_HUMAN antibody STAT 5A antibody STAT 5B antibody STAT5 antibody STAT5A antibody STAT5B antibody Transcription factor STAT5A antibody Transcription factor STAT5B antibody
Accession No.	Swiss-Prot#:P42229
Calculated MW	90 kDa
SDS-PAGE MW	90 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

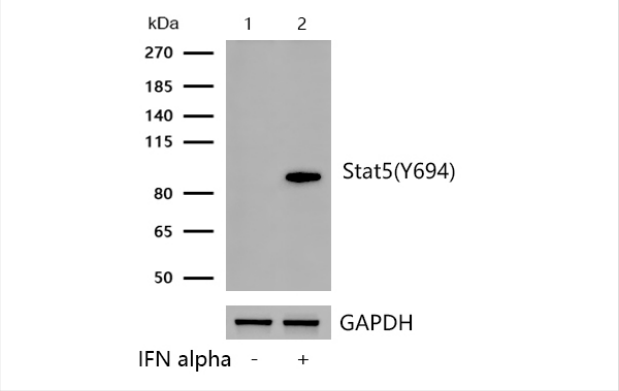
Application Details

WB: 1:500-1:2000

ICC/IF: 1:50-1:200

IHC: 1:50-1:200

Images



All lanes: Stat5(Phospho-Y694) Rabbit mAb at 1/1k dilution

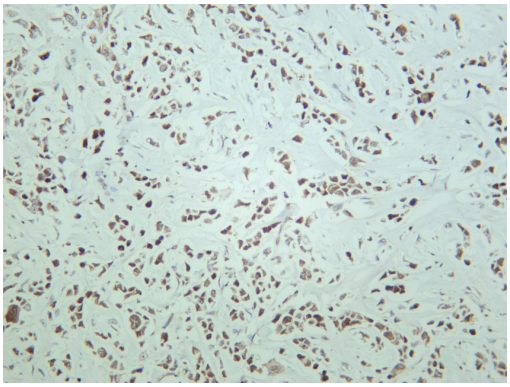
Lane 1 : Hela whole cell lysates
Lane 2 : Hela treated with 100ng/mL IFN alpha for 60 minutes whole cell lysates

Lysates/proteins at 20 µg per lane.

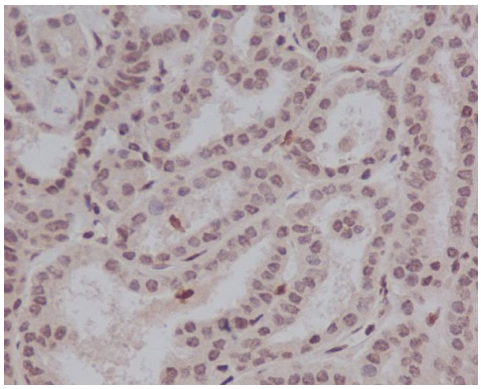
Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) at 1/20000 dilution

Predicted band size: 90 kDa
Observed band size: 90 kDa

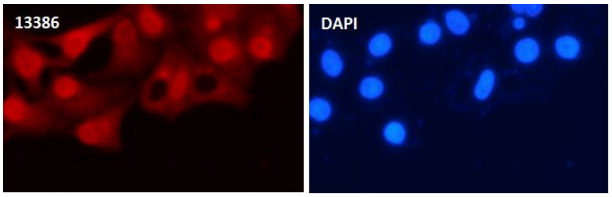
Exposure time: 10 seconds



Formalin-fixed;paraffin-embedded human breast tissue stained for Stat5 (Phospho-Y694) using 13386 at 1/100 dilution in immunohistochemical analysis.



Formalin-fixed;paraffin-embedded human thyroid tissue stained for Stat5 (Phospho-Y694) using 13386 at 1/100 dilution in immunohistochemical analysis.



Immunocytochemistry/ Immunofluorescence Stat5 (Phospho-Y694) antibody (13386)
ICC/IF staining of Stat5 (Phospho-Y694) in PC-12 cells. Cells were fixed with 4% Paraformaldehyde permeabilized with 0.1% Triton X-100.
Samples were incubated with 13386 at a working dilution of 1/100. The secondary antibody was Alexa FluorB 647 goat anti rabbit;used at a dilution of 1/500.

Background

Stat5 (Signal Transducers and Activators of Transcription 5) is important in regulating T cell functions involving the receptors for Interleukin-2 (IL-2). IL-2 stimulates the rapid phosphorylation of both serine and tyrosine residues of Stat5a and Stat5b in human T lymphocytes and in several IL-2-responsive lymphocytic cell lines. IL-2 differentially induces serine phosphorylation of Stat5a and Stat5b on Ser726 and Ser731, respectively. Stat5b is preferentially phosphorylated and displays more protracted serine phosphorylation kinetics than Stat5a. Both the acid-rich region and the COOH terminus of IL-2Rb can independently mediate IL-2-induced Stat 5a/b serine phosphorylation, suggesting that Stat5a/b serine phosphorylation occurs at a postreceptor level. Stat5a is phosphorylated on Tyr694 in a prolactin-sensitive manner, whereas serine phosphorylation is constitutive. Activation of Stat5 by IL-2 may help govern the biological effects of IL-2 during the immune response.

References

1. Yang TY et al. A multiple reaction monitoring (MRM) method to detect Bcr-Abl kinase activity in CML using a peptide biosensor. PLoS One 8:e56627 (2013).
2. Caldarelli A et al. A genome-wide RNAi screen identifies proteins modulating aberrant FLT3-ITD signaling. Leukemia 27:2301-10 (2013).

Published Papers

el at., Characterization of the rat oncostatin M receptor complex which resembles the human, but differs from the murine cytokine receptor. In PLoS

One on 2012 by Johannes

Drechsler, Joachim Grζ tzinger, et al..PMID: 22937020, , (2012)

PMID:22937020

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