Data Sheet (Cat.No.TMAC-03277)

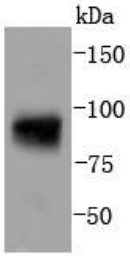
Anti-Phospho-STAT5A (Tyr694) Antibody (5T706)

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 90 kDa.
Clone:	5T706
Purification:	ProA affinity purified

Applications

Verified Activity: 1. Western blot analysis of Phospho-Stat5 (Y694) on mouse liver lysates using anti-Phospho-Stat5 (Y694) antibody at 1/1,000 dilution.



Application:	IHC,WB
Recommended	WB: 1:1000-2000; IHC: 1:50-200

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	A synthesized phosphopeptide: human Stat5 around the phosphorylation site of Tyr694
Antigen Species:	Human
Uniprot ID:	P42229
Synonyms:	Transcription factor STAT5A;p-STAT5A (Tyr394);STAT 5B;STAT 5A;STAT5B;Transcription factor STAT5B;STAT5A (p-Y694);STA5A_HUMAN;Signal transducer and activator of transcription 5A; MGF;Phospho-STAT5A (Y694);STAT5;Signal Transducer and Activator of Transcription 5B;p-STAT5A (Y694);STAT5A (p-Tyr394)

Research 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.

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