

## Product datasheet for **AM09324PU-N**

### STAT5B pTyr699 Mouse Monoclonal Antibody [Clone ID: A4B9]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	A4B9
Applications:	ELISA
Recommended Dilution:	<b>Indirect ELISA:</b> the antibody is reactive to Tyrosine699 phosphorylated Human STAT5b peptide fragment conjugated with KLH or the peptide-BSA conjugate. The suggested antigen coating quantity is 1 µg/ml of peptide/or peptide conjugating in pH 9.5 carbonate buffer, 100 µl/well.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	A Tyrosine 699 phosphorylated Human STAT5b peptide fragment conjugated with KLH.
Specificity:	Reactive to tyrosine699 phosphorylated Human STAT5b peptide fragment conjugated with KLH or the peptide-BSA conjugate, but not reactive to unconjugated KLH or BSA.
Formulation:	0.01M PBS, pH 7.2 without preservatives State: Aff - Purified State: Lyophilized purified IgG fraction
Reconstitution Method:	Restore with Double distilled water to adjust the final concentration to 1.0 mg/ml
Purification:	Affinity chromatography on Protein G
Conjugation:	Unconjugated
Storage:	Upon receipt, store undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Gene Name:	signal transducer and activator of transcription 5B
Database Link:	<a href="#">Entrez Gene 6777 Human P51692</a>



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<b>Background:</b>	Stat5b is a transcription factor that is activated in response to extra-cellular stimuli including IL-2, IL-4, MCSF and a variety of growth factors. In the process, receptor associated kinases phosphorylate Stat5b. Stat5b, then, forms dimers and translocates to nucleus. Inside nucleus, Stat5b binds to the promoter region on various genes to regulate biological processes such as apoptosis, T cell receptor signalling, and adult mammary gland development. Fusion of Stat5b to retinoic acid receptor-alpha (RAR $\alpha$ ) gene was identified in a small subgroup of acute promyelocytic leukemia patients.
<b>Synonyms:</b>	STAT-5B
<b>Protein Families:</b>	Druggable Genome, ES Cell Differentiation/IPS, Stem cell relevant signaling - JAK/STAT signaling pathway, Transcription Factors
<b>Protein Pathways:</b>	Acute myeloid leukemia, Chemokine signaling pathway, Chronic myeloid leukemia, ErbB signaling pathway, Jak-STAT signaling pathway, Pathways in cancer