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### Mouse Anti-Tyrosine699 Phosphorylated Human STAT5b Monoclonal Antibody Datasheet

**Product Name:** mAb anti-Tyrosine699 Phosphorylated Human STAT5b

**Clone No.:** A4B9

**Catalogue No.:** MO-P40001A

**Quantity:** 0.5 mg/vial

**Description:** Mouse monoclonal antibody against tyrosine699 phosphorylated human signal transducer and activator of transcription 5b (p-STAT5b).

**Purification:** Protein G affinity purified

**Product Type:** Primary antibody

**Target Protein:** Tyrosine699 phosphorylated human STAT5b

**Immunogen:** A tyrosine699 phosphorylated human STAT5b peptide fragment conjugated with KLH.

**Fusion Myeloma:** Sp2/0-Ag14

**Specificity:** Reactive to tyrosine699 phosphorylated human STAT5b peptide fragment conjugated with KLH or the peptide-BSA conjugate, but not reactive to un-conjugated KLH or BSA.

**Species Reactivity:** Human, others not tested.

**Host / Isotype:** Mouse, IgG1 Kappa

**Formulation:** Lyophilized form from a solution of 0.01M PBS, pH7.0

**Reconstitution:** Double distilled water is recommended to adjust the final concentration to 1.00mg/mL.

**Storage:** Store at -20°C. Avoid freeze and thaw cycles.

**Research Area:** Signal transduction, gene transcription

**Background:** 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.

**Applications:** In indirect ELISA, the antibody is reactive to tyrosine699 phosphorylated human STAT5b peptide fragment conjugated with KLH or the peptide-BSA conjugate. The conjugates were coated to ELISA plate at 1 $\mu$ g/ml in pH 9.5 carbonate buffer.

Other applications have not been evaluated.

**References:** If research is published using this product, please inform Anogen in order to cite the reference on this datasheet. Anogen will provide one unit of product in the same category as gratitude.

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