

**bs-5703R****[ Primary Antibody ]****BioSS**  
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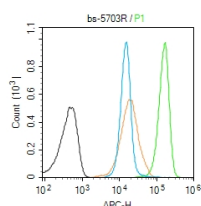
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**phospho-STAT5b (Ser731) Rabbit pAb****— DATASHEET —**

<b>Host:</b> Rabbit <b>Clonality:</b> Polyclonal <b>GeneID:</b> 6777 <b>Target:</b> STAT5b (Ser731) <b>Immunogen:</b> KLH conjugated Synthesised phosphopeptide derived from human STAT5b around the phosphorylation site of Ser731: AP(p-S)PA. <b>Purification:</b> affinity purified by Protein A <b>Concentration:</b> 1mg/ml <b>Storage:</b> 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles. <b>Background:</b> The protein encoded by this gene is a member of the STAT family of transcription factors. In response to cytokines and growth factors, STAT family members are phosphorylated by the receptor associated kinases, and then form homo- or heterodimers that translocate to the cell nucleus where they act as transcription activators. This protein mediates the signal transduction triggered by various cell ligands, such as IL2, IL4, CSF1, and different growth hormones. It has been shown to be involved in diverse biological processes, such as TCR signaling, apoptosis, adult mammary gland development, and sexual dimorphism of liver gene expression. This gene was found to fuse to retinoic acid receptor-alpha (RARA) gene in a small subset of acute promyelocytic leukemias (APLL). The dysregulation of the signaling pathways mediated by this protein may be the cause of the APLL. [provided by RefSeq, Jul 2008]	<b>Isotype:</b> IgG <b>SWISS:</b> P51692 <b>Applications:</b> Flow-Cyt (1ug/Test) <b>Reactivity:</b> Human (predicted: Mouse, Rat, Pig, Sheep, Cow, Chicken, Dog, Horse) <b>Predicted MW.:</b> 90 kDa <b>Subcellular Location:</b> Cytoplasm ,Nucleus
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**— VALIDATION IMAGES —**

Blank control (Black line): Molt4 (Black). Primary Antibody (green line): Rabbit Anti-phospho-STAT5b (Ser731) antibody (bs-5703R) Dilution: 1µg /10<sup>6</sup> cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody (white blue line): Goat anti-rabbit IgG-AF647 Dilution: 1µg /test. Protocol The cells were fixed with 4% PFA (10min at room temperature) and then permeabilized with 90% ice-cold methanol for 20 min at room temperature. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

## — SELECTED CITATIONS —

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- **[IF=3.738]** Zong, Jinxin. et al. Lithium Chloride Promotes Milk Protein and Fat Synthesis in Bovine Mammary Epithelial Cells via HIF-1 $\alpha$  and  $\beta$ -Catenin Signaling Pathways. Biol Trace Elem Res. 2022 Jan;;1-16 WB ;Bovine. 35080710
- **[IF=1.227]** Liao XD et al. Effect of all-trans retinoic acid on casein and fatty acid synthesis in MAC-T cells. Asian-Australas J Anim Sci. 2019 Aug 23. WB ;bovine. 31480153