

Mouse Anti-STAT5A [PCRP-STAT5A-1A11]: MC0611-100UG

Intended Use: For Research Use Only

Description: Membrane receptor signaling by various ligands, including interferons and growth hormones such as EGF, induces activation of JAK kinases which then leads to tyrosine phosphorylation of proteins that have been designated Stats (signal transducers and activators of transcription. STAT1 and STAT2 are induced by IFN- α and form a heterodimer which is part of the ISGF3 transcription factor complex. Although early reports indicate Stat3 activation by EGF and IL-6, it has been shown that STAT3 β appears to be activated by both while STAT3 α is activated by EGF, but not by IL-6. Highest expression of Stat4 is seen in testis and myeloid cells. STAT3 may localize to the nucleus or the cytoplasm. IL-12 has been identified as an activator of STAT4. STAT5 has been shown to be activated by prolactin and by IL-3. STAT6 is involved in IL-4 activated signaling pathways.

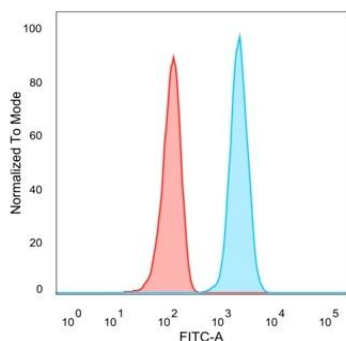
Specifications

Clone: PCRP-STAT5A-1A11
 Source: Mouse
 Isotype: IgG1
 Reactivity: Human
 Immunogen: STAT5A protein domain
 Localization: Cytoplasm, nucleus
 Formulation: 200ug/ml of Protein A/G purified antibody in 10mM PBS with 0.05% BSA & 0.05% NaN₃
 Storage: Store at 2°- 8°C
 Applications: Flow Cytometry
 Package:

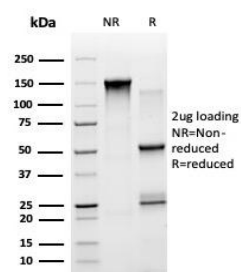
Description	Catalog No.	Size
STAT5A Concentrated	MC0611-100UG	100 ug

Flow Cytometry Procedure

Positive Control Tissue: HeLa or Jurkat cells
 Concentrated Dilution: 1-2 μ g/million cells (Optimal dilution for a specific application should be determined)
 * Result should be confirmed by an established diagnostic procedure.



Flow cytometric analysis of PFA-fixed HeLa cells. Anti-STAT5A [PCRP-STAT5A-1A11] followed by goat anti-mouse IgG-CF488 (blue); isotype control (red)



SDS-PAGE Analysis of anti-STAT5A [PCRP-STAT5A-1A11]. Confirmation of purity and integrity of antibody

References:

1. Flow cytometric measurement of STAT5 phosphorylation in cytomegalovirus-stimulated T cells. Michael Bitar, et al. Cytometry A. Aug;99(8):774-783, 2021.
2. The role of Stat5a and Stat5b in signaling by IL-2 family cytokines. Lin, J.X., et al. Oncogene 19: 2566-2576, 2000.
3. Evaluating STAT5 Phosphorylation as a Mean to Assess T Cell Proliferation. Michael Bitar, et al. Front Immunol. 2019; 10: 722, 2019.