

## DESCRIPTION

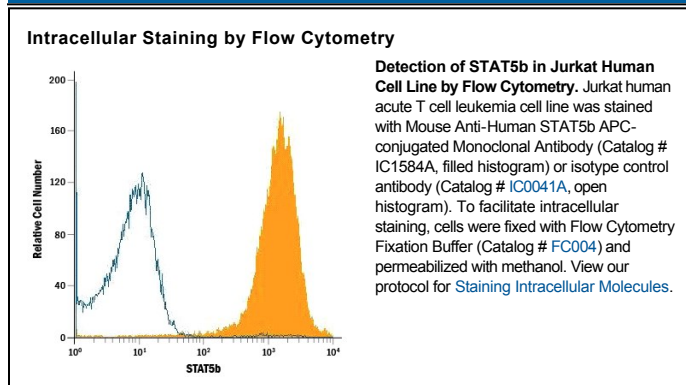
|                           |  |
|---------------------------|--|
| <b>Species Reactivity</b> | Human  |
| <b>Specificity</b>        | Detects human STAT5b in Western blots.   |
| <b>Source</b>             | Monoclonal Mouse IgG <sub>2B</sub> Clone # 389215  |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant   |
| <b>Immunogen</b>          | Human STAT5b synthetic peptide<br>MDSQWIPHAQS<br>Accession # NP_036580   |
| <b>Conjugate</b>          | Allophycocyanin<br>Excitation Wavelength: 620-650 nm<br>Emission Wavelength: 660-670 nm  |
| <b>Formulation</b>        | Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.<br><br>*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

|  | Recommended Concentration   | Sample    |
|--|-----------------------------|-----------|
| Intracellular Staining by Flow Cytometry | 10 µL/10 <sup>6</sup> cells | See Below |

## DATA



## PREPARATION AND STORAGE

**Shipping** The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

**Stability & Storage** **Protect from light. Do not freeze.**

- 12 months from date of receipt, 2 to 8 °C as supplied.

## BACKGROUND

Signal Transduction and Activator of Transcription 5B (STAT5b) is a member of the Jak/STAT signal transduction pathway and is activated by a variety of cytokines (IL-22, IL-6, IFN-α). Upon cytokine activation, STAT5b is phosphorylated and translocates to the nucleus where it binds to the DNA consensus site TTCN<sub>3</sub>GAA and activates transcription of specific genes. STAT5b shares 93% amino acid identity with STAT5a. STAT5b is involved in a wide array of biological processes ranging from regulating apoptosis to adult mammary gland proliferation, differentiation and survival.