

DESCRIPTION

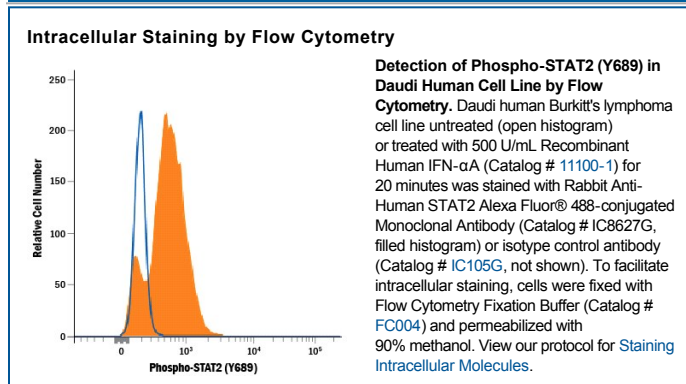
Species Reactivity	Human
Specificity	Detects human phospho-STAT2 (Y689) in Western blots.
Source	Recombinant Monoclonal Rabbit IgG Clone # 1021D
Purification	Protein A or G purified from cell culture supernatant
Immunogen	Phosphopeptide containing the human STAT2 Y689 site
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *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	5 µL/10 ⁶ 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. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

STAT2 (signal transducer and activator of transcription 2) is a 113 kDa member of the STAT family of cytoplasmic transcription factors. STAT members generally mediate cytokine, growth factor and hormone receptor signal transduction. STAT2 is associated with type I (α- and β-) interferon signaling. All STATs contain an N-terminal oligomerization domain, a DNA-binding domain, and an SH2-association region. STAT2 is phosphorylated at Y689 by receptor-associated Janus kinases (JAKs) leading to STAT2 dimerization and subsequent translocation to the nucleus to activate gene transcription.

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