

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human phospho-STAT2 (Y690) in direct ELISAs and Western blots.
Source	Monoclonal Rabbit IgG Clone # 1021D
Purification	Protein A or G purified from cell culture supernatant
Immunogen	Phosphopeptide containing the human STAT2 Y690 site
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide.

*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	0.25-1 µg/10 ⁶ cells	Daudi human Burkitt's lymphoma cell line treated with Recombinant Human IFN-αA (Catalog # 11100-1) was fixed with Flow Cytometry Fixation Buffer (Catalog # FC004) and permeabilized with 90% methanol

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. Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> 12 months, 2 to 8 °C under sterile conditions after opening.

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 Y690 by receptor-associated Janus kinases (JAKs) leading to STAT2 dimerization and subsequent translocation to the nucleus to activate gene transcription.

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