Human STAT5a/b
Alexa Fluor® 700-conjugated Antibody

Recombinant Monoclonal Rabbit IgG Clone # 1247C
Catalog Number: IC41901N
100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human STAT5a/b when phosphorylated at Y964/Y699 in direct ELISAs and Western blots.
Source	Recombinant Monoclonal Rabbit IgG Clone # 1247C
Purification	Protein A or G purified from cell culture supernatant
Immunogen	Phosphopeptide containing human STAT5b Y699 site (amino acid sequence of this peptide is identical to a corresponding region of human STAT5a containing Y694) Accession # P51692
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 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	IFN alpha-treated Daudi Human Cell Line fixed with paraformaldehyde and permeabilized with 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. Do not freeze.** • 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

Signal transduction and activator of transcription 5 (STAT5) is a member of the Jak/STAT signal transduction pathway and is activated by a variety of cytokines (IL-22, IL-6, IFN-α). STAT5 has two isoforms (A and B) that share 93% amino acid identity and bind the DNA consensus site $TTCN_3GAA$. STAT5 mediates cytokine signaling by acting as a signal transducer in the cytoplasm and, upon phosphorylation, translocates to the nucleus and activates transcription of specific genes. STAT5 is involved in a wide array of biological processes ranging from regulating apoptosis to adult mammary gland proliferation, differentiation, and survival.

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