Human STAT5a Alexa Fluor® 350-conjugated Antibody

Monoclonal Rat IgG_{2A} Clone # 941212

Catalog Number: FAB4190U

100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human STAT5a/b when phosphorylated at Y694/Y699 in Western blots.
Source	Monoclonal Rat IgG_{2A} Clone # 941212
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 350 Excitation Wavelength: 346 nm Emission Wavelength: 442 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% 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.*

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.

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, IFNα). Upon cytokine activation, STAT5b is phosphorylated and translocates to the nucleus where it binds to the DNA consensus site $TTCN_3GAA$ 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.

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