

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human STAT2 in direct ELISAs and Western blots.
Source	Monoclonal Rat IgG _{2A} Clone # 967425
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human STAT2 Gln679-Phe851 Accession # P52630
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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.

Knockout Validated	Optimal dilution of this antibody should be experimentally determined.
Western Blot	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 transducer and activator of transcription 2 (STAT2) is a member of the transcription factor STAT family with an apparent M.W. of 113 kDa in SDS-PAGE gels. Human STAT2 is 851 amino acids (aa) in length and contains one SH2 domain (aa 572-667). Splicing variants produce two isoforms for human STAT2. The short isoform has a 32 aa substitution and a 199 aa deletion corresponding to aa 621-652 and aa 653-851 in the long isoform, respectively. Human STAT2 shares 73% and 65% aa sequence identity with rat and mouse STAT2, in that order. STAT2 functions as a signal transducer and activator of transcription that mediates signaling by type I IFNs (IFN-α and IFN-β), and it is also required for myogenic differentiation.

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