

## Phospho-STAT1 (Y701) Alexa Fluor® 647-conjugated Antibody

Recombinant Monoclonal Rabbit IgG Clone # 1086B Catalog Number: IC2894R

100 µg

DESCRIPTION			
Species Reactivity	ty Human		
Specificity	Detects human STAT1 when phosphorylated at Y701 in Western blots.		
Source	Recombinant Monoclonal Rabbit IgG Clone # 1086B		
Purification	Protein A or G purified from cell culture supernatant		
Immunogen	Phosphopeptide containing the human STAT1 Y701 site Accession # NP009330		
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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 <sup>6</sup> 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

STAT1 (signal transducer and activator of transcription #1) is an 88 kDa member of the STAT family of cytoplasmic transcription factors. STAT members generally mediate cytokine, growth factor and hormone receptor signal transduction. STAT1 is associated with type I and II interferon signaling. All STATs contain an N-terminal oligomerization domain, a DNA-binding domain, and an SH2-association region. STAT1 is phosphorylated at Y701 by receptor-associated Janus kinases (JAKs) leading to STAT1 dimerization and subsequent translocation to the nucleus to activate gene transcription.

## PRODUCT SPECIFIC NOTICES

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