

Human ISG15/UCRP PE-conjugated Antibody

Monoclonal Rat IgG_{2A} Clone # 851701 Catalog Number: IC8044P

100 TESTS

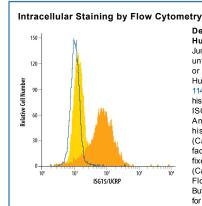
DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human ISG15/UCRP in ELISAs and Western Blot.		
Source	Monoclonal Rat IgG _{2A} Clone # 851701		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	Full-length recombinant human ISG15/UCRP Accession # P05161		
Conjugate	Phycoerythrin Excitation Wavelength: 488 nm Emission Wavelength: 565-605 nm		
Formulation	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.		
	*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	10 μL/10 ⁶ cells	See Below

DATA



Detection of ISG15/UCRP in Jurkat Human Cell Line by Flow Cytometry. Jurkat human acute T cell leukemia cell line untreated (light orange filled histogram) or treated with 500 U/mL Recombinant Human IFN-β 1a (Mammalian) (Catalog # 11415-1) for 16 hours (dark orange filled histogram) was stained with Rat Anti-Human ISG15/UCRP PE-conjugated Monoclonal Antibody (Catalog # IC8044P, filled histogram) or isotype control antibody (Catalog # IC006P, open histogram). To facilitate intracellular staining, cells were fixed with Flow Cytometry Fixation Buffer (Catalog # FC004) and permeabilized with Flow Cytometry Permeabilization/Wash Buffer I (Catalog # FC005). View our protocol for Staining Intracellular Molecules.

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

ISG15 (interferon-induced 15 kDa protein; also known as IP17) is a 15 kDa ubiquitin family protein that is expressed by a wide variety of cell types. ISG15 is induced by type-I IFN, and like ubiquitin, becomes conjugated to intracellular proteins. Unlike ubiquitin, it does not target proteins for degradation. Instead, it is part of the antivirus response. Human proISG15 is 165 amino acids (aa) in length. There are two ubiquitin-like domains (aa 2-78 and 79-157) and a propeptide (aa 158-165) that is cleaved intracellularly. Select blood mononuclear cells secrete mature ISG15, which is chemotactic for neutrophils. Mature human ISG15 is 66% aa identical to mouse ISG15.

