

## DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human IL-28 R $\alpha$ /IFN- $\lambda$ R1 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant mouse IL-28 $\alpha$ is observed.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 601106
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant human IL-28 R $\alpha$ /IFN- $\lambda$ R1 Arg21-Ala228 Accession # Q8IU57
<b>Conjugate</b>	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
<b>Formulation</b>	Supplied 0.2 mg/mL 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
<b>Flow Cytometry</b>	0.25-1 $\mu$ g/10 <sup>6</sup> cells	Daudi human Burkitt's lymphoma cell line and human peripheral blood mononuclear cells (PBMCs) treated with PMA and calcium ionomycin

## PREPARATION AND STORAGE

<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<b>Protect from light. Do not freeze.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, 2 to 8 °C as supplied.</li> </ul>

## BACKGROUND

IL-28 R $\alpha$  (IL-28 receptor alpha subunit; also named interferon- $\lambda$  R1) is a widely-expressed type I transmembrane glycoprotein that is cytokine receptor family 2 member 12 (CRF2-12). It pairs with the IL-10 receptor  $\beta$  subunit (IL-10 R $\beta$ , CRF2-4) to form the IL-28 R. Its ligands, IL-28A (IFN- $\lambda$ 2), IL-28B (IFN- $\lambda$ 3), and IL-29 (IFN- $\lambda$ 1), are mainly produced by antigen presenting cells in response to viruses. The 520 amino acid (aa) mouse IL-28 R $\alpha$  contains a 208 aa extracellular domain (ECD) with a fibronectin type III motif. The human IL-28 R $\alpha$  ECD shares ~67% aa identity with rat and human IL-28 R $\alpha$ . Isoforms of 491, 437, 322, 283, 244, 211 and 184 aa have alternate N- or C-termini, or lack transmembrane or internal sequences.

## PRODUCT SPECIFIC NOTICES

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