

## DESCRIPTION

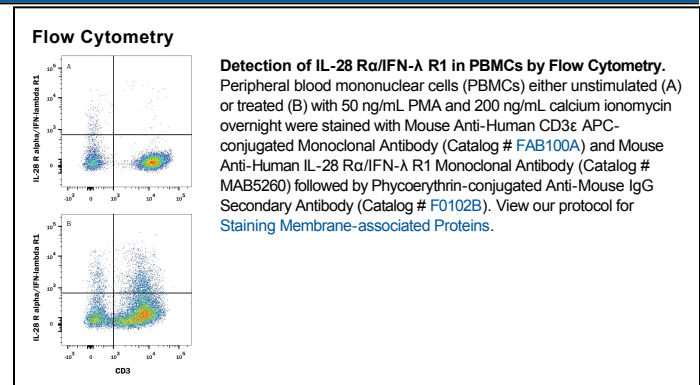
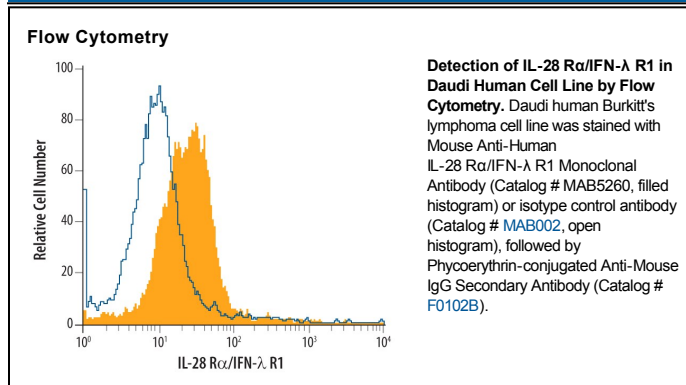
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human IL-28 R $\alpha$ /IFN- $\lambda$ R1 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant mouse IL-28 $\alpha$ is observed.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 601106
<b>Purification</b>	Protein A 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>Formulation</b>	Lyophilized from a 0.2 $\mu$ m filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 $\mu$ m filtered solution in PBS.

## 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 $\mu$ g/10 <sup>6</sup> cells	See Below
<b>CyTOF-ready</b>	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

## DATA



## PREPARATION AND STORAGE

<b>Reconstitution</b>	Sterile PBS to a final concentration of 0.5 mg/mL.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</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.