

**DESCRIPTION**

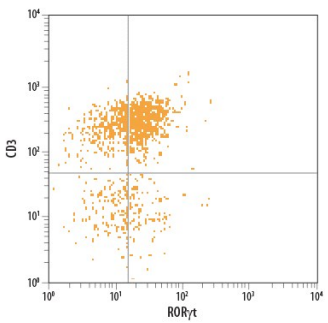
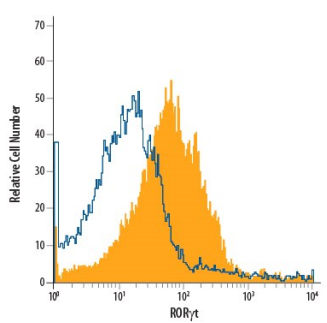
<b>Species Reactivity</b>	Human/Mouse
<b>Specificity</b>	Detects human and mouse ROR $\gamma$ t/RORC2 in direct ELISAs. In direct ELISAs, no cross-reactivity with human and mouse RORC.
<b>Source</b>	Monoclonal Mouse IgG <sub>2B</sub> Clone # 600380
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Human ROR $\gamma$ t peptide Met1-Arg10 Accession # P51449
<b>Conjugate</b>	Phycoerythrin Excitation Wavelength: 488 nm Emission Wavelength: 565-605 nm
<b>Formulation</b>	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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Intracellular Staining by Flow Cytometry</b>	10 $\mu$ L/10 <sup>6</sup> cells	See Below

**DATA**

<p><b>Intracellular Staining by Flow Cytometry</b></p>  <p><b>Detection of ROR<math>\gamma</math>t/RORC2/NR1F3 in Human PBMCs by Flow Cytometry.</b> Human peripheral blood mononuclear cells (PBMCs) treated with PMA, Calcium Ionomycin, LPS, and Recombinant Human IL-23 (Catalog # 1290-IL) were stained with Mouse Anti-Human/Mouse ROR<math>\gamma</math>t/RORC2/NR1F3 PE-conjugated Monoclonal Antibody (Catalog # IC6006P) and Mouse Anti-Human CD3<math>\epsilon</math> APC-conjugated Monoclonal Antibody (Catalog # FAB100A). Quadrant markers were set based on control antibody staining (Catalog # IC0041P). 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 <a href="#">Staining Intracellular Molecules</a>.</p>	<p><b>Intracellular Staining by Flow Cytometry</b></p>  <p><b>Detection of ROR<math>\gamma</math>t/RORC2/NR1F3 in CD4<sup>+</sup>/CD8<sup>+</sup> Mouse Thymocytes by Flow Cytometry.</b> CD4<sup>+</sup>/CD8<sup>+</sup> mouse thymocytes were stained with Mouse Anti-Human/Mouse ROR<math>\gamma</math>t/RORC2/NR1F3 PE-conjugated Monoclonal Antibody (Catalog # IC6006P, filled histogram) or isotype control antibody (Catalog # IC0041P, 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 <a href="#">Staining Intracellular Molecules</a>.</p>
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**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**

Retinoic acid-related Orphan Receptor gamma (ROR $\gamma$ , TOR, RORC; NR1F3) is a member of the orphan nuclear receptor family. ROR $\gamma$  is expressed in the muscle, thymus, testis, pancreas, prostate, heart, and liver. ROR $\gamma$  plays a role in thymocyte development and homeostasis. RORs bind to DNA as monomers on half-site elements with 5' A/T-rich extensions. An N-terminal isoform of ROR $\gamma$ , ROR $\gamma$ t, has been shown to be specifically expressed in the thymus.