

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects recombinant human ROR γ t/RORC2/NR1F3 by direct ELISAs and detects human and mouse ROR γ t/RORC2/NR1F3 in flow cytometry.
Source	Recombinant Monoclonal Rabbit IgG Clone # 1181A
Purification	Protein A or G purified from cell culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human ROR γ t/RORC2/NR1F3 Met1-Gln100 Accession # P51449
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 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	0.25-1 μ g/10 ⁶ cells	See Below

DATA

Intracellular Staining by Flow Cytometry

Detection of ROR gamma t/RORC2/NR1F3 in Human PBMCs by Flow Cytometry. Human peripheral blood mononuclear cells (PBMCs) either (A) stimulated to induce Th17 cells or (B) unstimulated were stained with Rabbit Anti-Human/Mouse ROR gamma t/RORC2/NR1F3 Alexa Fluor® 700-conjugated Monoclonal Antibody (Catalog # IC9125N) and Mouse Anti-Human CD4 PE-conjugated Monoclonal Antibody (Catalog # FAB3791P). Quadrant markers were set based on control antibody staining (Catalog # IC1051N). To facilitate intracellular staining, cells were fixed and permeabilized with FlowX FoxP3 Fixation & Permeabilization Buffer Kit (Catalog # FC012). View our protocol for [Staining Intracellular Molecules](#).

Intracellular Staining by Flow Cytometry

Detection of ROR gamma t/RORC2/NR1F3 in Mouse Splenocytes by Flow Cytometry. Mouse splenocytes either (A) stimulated to induce Th17 cells or (B) unstimulated were stained with Rabbit Anti-Human/Mouse ROR gamma t/RORC2/NR1F3 Alexa Fluor® 700-conjugated Monoclonal Antibody (Catalog # IC9125N) and Rat Anti-Mouse CD4 PE-conjugated Monoclonal Antibody (Catalog # FAB554P). Quadrant markers were set based on control antibody staining (Catalog # IC1051N). To facilitate intracellular staining, cells were fixed and permeabilized with FlowX FoxP3 Fixation & Permeabilization Buffer Kit (Catalog # FC012). 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. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

Retinoic acid-related Orphan Receptor gamma (ROR γ , TOR, RORC; NR1F3) is a member of the orphan nuclear receptor family. ROR γ is expressed in the muscle, thymus, testis, pancreas, prostate, heart, and liver. ROR γ 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 γ , ROR γ t, has been shown to be specifically expressed in the thymus.

PRODUCT SPECIFIC NOTICES

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**Human/Mouse RORyt/RORC2/NR1F3
Alexa Fluor® 700-conjugated Antibody**

Recombinant Monoclonal Rabbit IgG Clone # 1181A

Catalog Number: IC9125N

100 µg