

## Purified anti-ROR $\gamma$

**Catalog # / Size:** 644902 / 100  $\mu$ g

**Clone:** 4F3-3C8-2B7

**Isotype:** Mouse IgG1

**Immunogen:** Human ROR $\gamma$ -GST recombinant protein

**Reactivity:** Human, Weakly Cross-Reactive with Mouse

**Preparation:** The antibody was purified by affinity chromatography.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

**Concentration:** 0.5 mg/ml

**Storage:** The antibody solution should be stored undiluted at 4°C.

## Applications:

**Applications:** WB - *Quality tested*

**Recommended Usage:** Each lot of this antibody is quality control tested by Western blotting. Western blotting, suggested working dilution: 1 to 4  $\mu$ g/ml. It is recommended that the reagent be titrated for optimal performance for each application.

**Application References:** 1. Klemann C, *et al.* 2009. *Am J Pathol.* 174:2234. PubMed

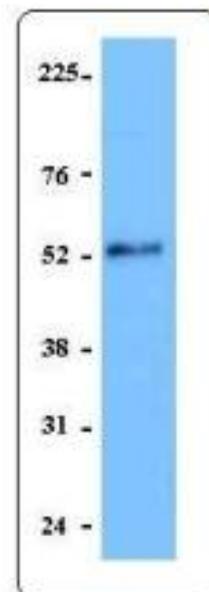
**Description:** ROR $\gamma$  (Retinoid-related orphan receptor gamma) belongs to the nuclear hormone receptor family, NR1 subfamily. Contains 1 nuclear receptor DNA-binding domain. ROR $\gamma$  has two isoforms:  $\gamma$ 1 and  $\gamma$ 2 (also referred to as ROR $\gamma$ t). The ROR $\gamma$ t differs from the ROR $\gamma$ 1 isoform in that it lacks the amino terminus of ROR $\gamma$ 1. ROR $\gamma$ 1 contains 516 amino acids and ROR $\gamma$ t contains 495 amino acids. ROR $\gamma$ 1 has a molecular weight of approximately 58 kD. ROR $\gamma$ 1 is highly expressed in thymus, kidney, liver, muscle, and brown fat but not in white fat tissue. ROR $\gamma$ t is specifically expressed in only two cell populations, DP thymocytes and lymphoid tissue inducers (LTi). ROR $\gamma$  plays a critical role in control apoptosis during thymopoiesis and T cell homeostasis. ROR $\gamma$  is to regulate TCR $\alpha$  repertoire by virtue of its positive regulatory role on Bcl-x expression. ROR $\gamma$  is essential for lymph nodes and Peyer's patches development.

**Antigen References:** 1. Medvedev A, *et al.* 1997. *Genomics* 46:93.  
2. He YW, *et al.* 1998. *Immunity* 9:797.  
3. Eberl G, *et al.* 2004. *Nat. Immunol.* 5:64.

**Related Products:** **Product**  
HRP Goat anti-mouse IgG (minimal x-reactivity)

**Clone**  
Poly4053

**Application**  
ELISA, IHC, WB



*Nuclear extract from mouse thymus was resolved by electrophoresis, transferred to nitrocellulose and probed with purified 4F3-3C8-2B7. Proteins were visualized using goat anti-mouse secondary antibody conjugated to HRP and a chemiluminescent system.*



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