

Purified anti-ROR γ

Catalog # / Size: 646501 / 25 μ g
646502 / 100 μ g

Clone: RORg2

Isotype: Armenian hamster IgG

Immunogen: Mouse ROR γ

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:

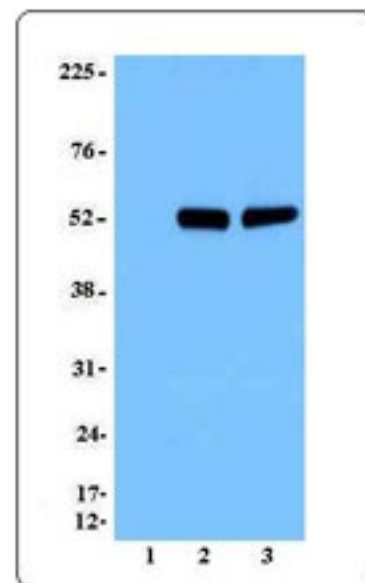
Applications: WB - *Quality tested*

Recommended Usage: Each lot of this antibody is quality control tested by Western blotting. For Western blotting, the suggested use of this reagent is 1-2 μ g per lane. It is recommended that the reagent be titrated for optimal performance for each application.

Application References: 1. Sun Z, *et al.* 2000. *Science* 288:2369

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



Mouse spleen (lane1), thymus (lane2) and thymus nuclear extract (lane3) cell lysates were resolved by electrophoresis, transferred to nitrocellulose and probed with purified RORg2. Proteins were visualized using anti-hamster (Armenian) secondary antibody conjugated to HRP and a chemiluminescent system.



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