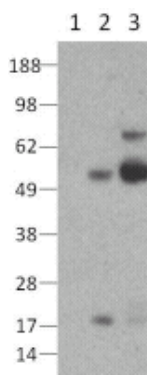


Anti-Human ROR gamma Purified

Catalog Number: 14-6989

Also Known As: RORgamma, RORg, RORg(t), Retinoid-Related Orphan Receptor gamma

RUO: For Research Use Only



Lysates prepared from 293 cells (lane 1) and 293 cells transfected with mouse ROR γ cDNA (lane 2) or human ROR γ cDNA (lane 3) under reducing conditions with DTT were resolved by SDS-PAGE then immunoblotted with 4 μ g/ml of Anti-Human ROR γ Purified. Bands were visualized using Anti-Mouse IgG HRP.

Product Information

Contents: Anti-Human ROR gamma Purified

REF Catalog Number: 14-6989

Clone: 4F3-3C8-2B7

Concentration: 0.5 mg/ml

Host/Isotype: Mouse IgG1

Formulation: aqueous buffer, 0.09% sodium azide, contains stabilizer if necessary



Temperature Limitation: Store at 2-8°C.



Batch Code: Refer to Vial



Use By: Refer to Vial



Caution, contains Azide

Description

The 4F3-3G8-2B7 monoclonal antibody reacts with the DNA binding domain of human and mouse ROR γ protein. ROR γ is a member of the retinoic acid-related orphan receptor (ROR) family, which also includes RORalpha and RORbeta. ROR family proteins are ligand-dependent transcription factors that play roles in multiple physiological processes. ROR γ is expressed in several tissues, including liver, lung, muscle, heart and kidney. Furthermore, it was discovered that alternative transcription results in the expression of an isoform, ROR γ t, that is expressed exclusively in cells of the lymphoid compartment, namely CD4+CD8+ thymocytes, Th17 cells of the periphery and lymphoid tissue inducer (Lti) cells of lymphoid organs.

The ROR γ t isoform differs from ROR by three unique amino acids at the amino terminus. Therefore, the 4F3-3G8-2 antibody will react with both the ROR γ and ROR γ t isoforms. In addition our data suggests that 4F3-3C8-2B7 has greater sensitivity to human ROR γ than to mouse ROR γ . For detection of mouse ROR γ , please use cat. 14-6981.

Applications Reported

For research use only, not for diagnostic or therapeutic use. This 4F3-3C8-2B7 antibody has been reported for use in immunoblotting (WB).

Applications Tested

This 4F3-3C8-2B7 antibody has been tested by western blot analysis of transfected cells. Titration of the antibody from 5 μ g/ml is recommended.

References

Ivanov II, McKenzie BS, Zhou L, Tadokoro CE, Lepelley A, Lafaille JJ, Cua DJ, Littman DR. The orphan nuclear receptor ROR γ t directs the differentiation program of proinflammatory IL-17+ T helper cells. *Cell*. 2006 Sep 22;126(6):1121-33.

Sun Z, Unutmaz D, Zou YR, Sunshine MJ, Pierani A, Brenner-Morton S, Mebius RE, Littman DR. Requirement for ROR γ in thymocyte survival and lymphoid organ development. *Science*. 2000 Jun 30;288(5475):2369-73.

He YW, Deftos ML, Ojala EW, Bevan MJ. ROR γ t, a novel isoform of an orphan receptor, negatively regulates Fas ligand expression and IL-2 production in T cells. *Immunity*. 1998 Dec;9(6):797-806.

Medvedev A, Yan ZH, Hirose T, Giguère V, Jetten AM. Cloning of a cDNA encoding the murine orphan receptor RZR/ROR gamma and characterization of its response element. *Gene*. 1996 Nov 28; 181(1-2):199-206.

Related Products

14-4714 Mouse IgG1 K Isotype Control Purified

14-6981 Anti-Mouse ROR gamma (t) Purified (B2D)

14-6988 Anti-Human/Mouse ROR gamma (t) Purified (AFKJS-9)

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