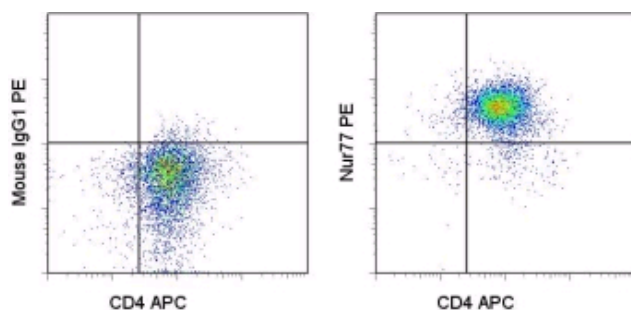


Anti-Mouse Nur77 PE

Catalog Number: 12-5965

Also Known As: NGFI-B, NR4A1, TR3, NAK1

RUO: For Research Use Only



Staining of unstimulated (left) and 2-hr PMA and Ionomycin stimulated (right) C57BL/6 thymocytes with Anti-Mouse CD4 APC (cat. 17-0041) followed by intracellular staining with 0.5 µg of Anti-Mouse Nur77 PE using the Foxp3 Staining Buffer Set (cat. 00-5523). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse Nur77 PE


 Catalog Number: 12-5965

Clone: 12.14


Concentration: 0.2 mg/ml


Host/Isotype: Mouse IgG1

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

 Temperature Limitation: Store at 2-8°C. Do not freeze. Light sensitive material.

 Batch Code: Refer to Vial

 Use By: Refer to Vial

 Caution, contains Azide

Description

This 12.14 monoclonal antibody reacts with mouse Nur77 (also known as NR4A1, TR3, NGFI-B, or NAK1), an inducible orphan nuclear receptor. Expressed in thymocytes and T cell lines, Nur77 promotes apoptosis and plays a role in thymocyte negative selection. Additionally, Nur77 has been shown to be critical for steroid biosynthesis in Leydig cells as well as for the effects of dopamine. In addition, Nur77 has been shown to interact with FoxP3 in regulatory T cells. However, our results with this antibody do not correlate with this observation.

Applications Reported

This 12.14 antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

Applications Tested

This 12.14 antibody has been tested by intracellular flow cytometric analysis on mouse thymocytes stimulated with PMA and ionomycin for two hours using the Foxp3 Buffer Set (cat. 00-5523) and protocol. Please click [here](#) for Staining Protocol (refer to Protocol B: One-step protocol for intracellular (nuclear) proteins). This antibody can be used at less than or equal to 1 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Martin LJ, Boucher N, Brousseau C, Tremblay JJ. The orphan nuclear receptor NUR77 regulates hormone-induced StAR transcription in Leydig cells through cooperation with Ca²⁺/calmodulin-dependent protein kinase I. *Mol Endocrinol.* 2008 Sep;22(9):2021-37.

Bourhis E, Maheux J, Rouillard C, Lévesque D. Extracellular signal-regulated kinases (ERK) and protein kinase C (PKC) activities are involved in the modulation of Nur77 and Nor-1 expression by dopaminergic drugs. *J Neurochem.* 2008 Jul;106(2):875-88.

Tao R, Hancock W. Resistance of Foxp3⁺ regulatory T cells to Nur77-induced apoptosis promotes allograft survival. *PLoS ONE.* 2008 May 28;3(5):e2321.

Cunningham NR, Artim SC, Fornadel CM, Sellars MC, Edmonson SG, Scott G, Albino F, Mathur A, Punt JA. Immature CD4⁺CD8⁺ thymocytes and mature T cells regulate Nur77 distinctly in response to TCR stimulation. *J Immunol.* 2006 Nov 15;177(10):6660-6.

Related Products

00-5523 Foxp3 Staining Buffer Set

12-4714 Mouse IgG1 K Isotype Control PE

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