

Nur77 Monoclonal Antibody (12.14), PE, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse, Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	12.14
Conjugate	PE
Excitation/Emission Max	565/576 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_1257209

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	1 µg/test	18 Publications

Product Specific Information

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.

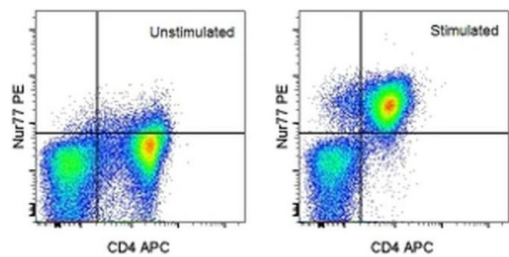
Applications Reported: This 12.14 antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

Applications Tested: This 12.14 antibody has been tested by intracellular staining and flow cytometric analysis of stimulated mouse thymocytes using the Foxp3/Transcription Factor Staining Buffer Set (Product # 00-5523-00) and protocol. Please refer to Best Protocols: 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.

Excitation: 488-561 nm; **Emission:** 578 nm; **Laser:** Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For Nur77 Monoclonal Antibody (12.14), PE, eBioscience™



Nur77 Antibody (12-5965-82) in Flow
Mouse thymocytes were unstimulated (left) or stimulated for 3 hours with the Cell Stimulation Cocktail (Product # 00-4970-03) (right) then intracellularly stained with Anti-Mouse CD4 APC (Product # 17-0041-82) and 0.5 µg of Anti-Mouse Nur77 PE using the Foxp3/Transcription Factor Staining Buffer Set (Product # 00-5523-00) and protocol. Total viable cells, as determined by Fixable Viability Dye eFluor® 506 (Product # 65-0866-14), were used for analysis.

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18 References

Flow Cytometry (18)

Advanced science (Weinheim, Baden-Wurttemberg, Germany)

Single-cell RNA Sequencing Identified Novel Nr4a1⁺ Ear2⁺ Anti-Inflammatory Macrophage Phenotype under Myeloid-TLR4 Dependent Regulation in Anti-Glomerular Basement Membrane (GBM) Crescentic Glomerulonephritis (cGN).

"12-5965-82 was used in flow cytometry to study single-cell RNA sequencing (scRNA-seq), pseudotime trajectories reconstruction, and motif enrichment analysis, and macrophage diversity in anti-GBM cGN under tight regulation of myeloid-TLR4 to decode a previously unidentified role for a myeloid-TLR4 dependent Nr4a1/Ear2 negative feedback mechanism in macrophage-mediated progressive renal injury, implying that activation of Nr4a1-Ear2 axis can be a novel and effective immunotherapy for anti-GBM cGN."

Authors: Chen J,Huang XR,Yang F,Yiu WH,Yu X,Tang SCW,Lan HY

Year
2022

Species
Mouse

Dilution
1:100

Immunity

MTHFD2 is a metabolic checkpoint controlling effector and regulatory T cell fate and function.

"12-5965-82 was used in Flow cytometry/Cell sorting to show that MTHFD2 is a metabolic checkpoint to integrate purine metabolism with pathogenic effector cell signaling and is a potential therapeutic target within 1C metabolism pathways."

Authors: Sugiura A,Andrejeva G,Voss K,Heintzman DR,Xu X,Madden MZ,Ye X,Beier KL,Chowdhury NU,Wolf MM,Young AC,Greenwood DL,Sewell AE,Shahi SK,Freedman SN,Cameron AM,Foerch P,Bourne T,Garcia-Canaveras JC,Karjolich J,Newcomb DC,Mangalam AK,Rabinowitz JD,Rathmell JC

Year
2022

Species
Mouse

View more Flow references on thermofisher.cn

More applications with references on thermofisher.cn

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