

# Nur77 Monoclonal Antibody (12.14), Alexa Fluor™ 488, eBioscience™

## Product Details

Size	100 µg
Species Reactivity	Mouse
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Alexa Fluor™ 488, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	12.14
Conjugate	Alexa Fluor™ 488
Excitation/Emission Max	499/520 nm
Form	Liquid
Concentration	0.5 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_2574429

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	1 µg/test	6 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.

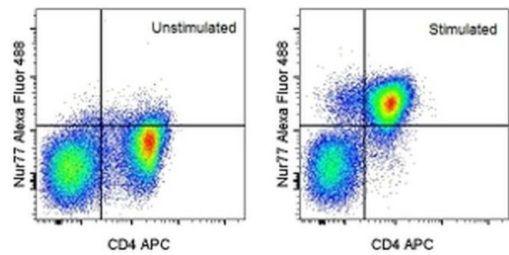
**Applications Reported:** This 12.14 antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

**Applications Tested:** This 12.14 antibody has been tested by intracellular staining followed by 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 (nuclear) intracellular proteins located under the Resources Tab online. This 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 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

**Excitation:** 488 nm; **Emission:** 519 nm; **Laser:** Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For Nur77 Monoclonal Antibody (12.14), Alexa Fluor™ 488, eBioscience™



**Nur77 Antibody (53-5965-82) 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 1.0 µg of Anti-Mouse Nur77 Alexa Fluor® 488 using the Foxp3/Transcription Factor 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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## Immunohistochemistry (1)

<p><b>The Journal of clinical investigation</b></p> <p><b>CD161 contributes to prenatal immune suppression of IFN-producing PLZF+ T cells.</b></p> <p>"Published figure using Nur77 monoclonal antibody (Product # 53-5965-82) in Immunohistochemistry"</p> <p>Authors: Halkias J,Rackaityte E,Hillman SL,Aran D,Mendoza VF,Marshall LR,MacKenzie TC,Burt TD</p>	<p><b>Year</b> 2019</p>
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## Immunocytochemistry (1)

<p><b>Nature communications</b></p> <p><b>Phase separation of Nur77 mediates celastrol-induced mitophagy by promoting the liquidity of p62/SQSTM1 condensates.</b></p> <p>"Published figure using Nur77 monoclonal antibody (Product # 53-5965-82) in Immunocytochemistry"</p> <p>Authors: Peng SZ,Chen XH,Chen SJ,Zhang J,Wang CY,Liu WR,Zhang D,Su Y,Zhang XK</p>	<p><b>Year</b> 2021</p>
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## Flow Cytometry (6)

<p><b>eLife</b></p> <p><b>T cell self-reactivity during thymic development dictates the timing of positive selection.</b></p> <p>"Published figure using Nur77 monoclonal antibody (Product # 53-5965-82) in Flow Cytometry"</p> <p>Authors: Lutes LK,Steier Z,McIntyre LL,Pandey S,Kaminski J,Hoover AR,Ariotti S,Streets A,Yosef N,Robey EA</p>	<p><b>Year</b> 2021</p>
<p><b>Cell reports. Medicine</b></p> <p><b>Developing Human Skin Contains Lymphocytes Demonstrating a Memory Signature.</b></p> <p>"Published figure using Nur77 monoclonal antibody (Product # 53-5965-82) in Flow Cytometry"</p> <p>Authors: Dhariwala MO,Karthikeyan D,Vasquez KS,Farhat S,Weckel A,Taravati K,Leitner EG,Clancy S,Pauli M,Piper ML,Cohen JN,Ashouri JF,Lowe MM,Rosenblum MD,Scharschmidt TC</p>	<p><b>Year</b> 2020</p>

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