

# Nur77 Monoclonal Antibody (12.14), eBioscience™

## Product Details

Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	12.14
Conjugate	Unconjugated
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
RRID	AB_1257215

Applications	Tested Dilution	Publications
Western Blot (WB)	5 µg/mL	2 Publications
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	-	11 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.

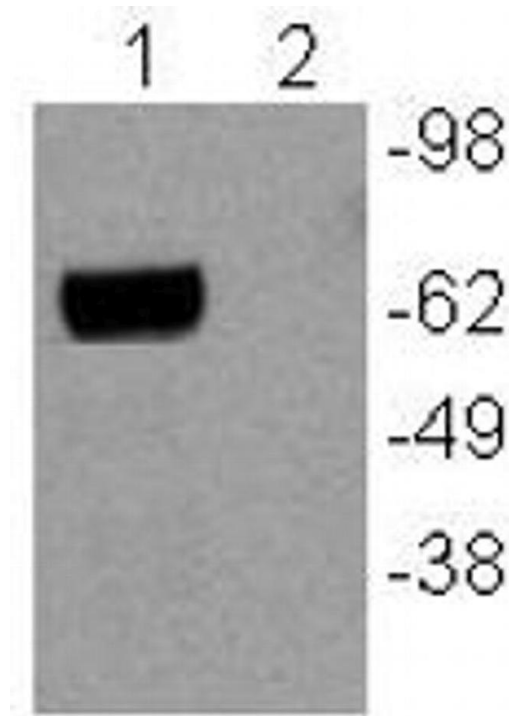
**Applications Reported:** This 12.14 antibody has been reported for use in immunoblotting (WB).

**Applications Tested:** This 12.14 antibody has been tested by western blot on lysates prepared from mouse thymocytes stimulated with PMA and ionomycin for two hours. This antibody can be used at 5 µg/mL. It is recommended that this antibody by titrated for optimal performance in the assay of interest.

**Purity:** Greater than 90%, as determined by SDS-PAGE.

**Aggregation:** Less than 10%, as determined by HPLC.

**Filtration:** 0.2 µm post-manufacturing filtered.



**Nur77 Antibody (14-5965-82) in WB**  
Immunoblotting of PMA and ionomycin-stimulated (lane 1) and unstimulated mouse thymocytes (lane 2) with 5 µg/mL of Anti-Mouse Nur77 Purified. The band was visualized using Rat Anti-Mouse IgG HRP.

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## Western Blot (2)

<p><b>The Journal of clinical investigation</b></p> <p><b>NR4A nuclear receptors support memory enhancement by histone deacetylase inhibitors.</b></p> <p>"14-5965 was used in Western Blotting to demonstrate that the Nr4a gene family contributes to memory formation and is a promising target for improving cognitive function."</p> <p>Authors: Hawk JD,Bookout AL,Poplawski SG,Bridi M,Rao AJ,Sulewski ME,Kroener BT,Manglesdorf DJ,Abel T</p>	<p><b>Year</b> 2012</p> <p><b>Species</b> Mouse</p> <p><b>Dilution</b> 1:1000</p>
<p><b>Molecular endocrinology (Baltimore, Md.)</b></p> <p><b>The orphan nuclear receptor NUR77 regulates hormone-induced StAR transcription in Leydig cells through cooperation with Ca2+/calmodulin-dependent protein kinase I.</b></p> <p>"Published figure using Nur77 monoclonal antibody (Product # 14-5965-82) in Western Blot"</p> <p>Authors: Martin LJ,Boucher N,Brousseau C,Tremblay JJ</p>	<p><b>Year</b> 2008</p>

## 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 # 14-5965-82) 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 (11)

<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 # 14-5965-82) 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>
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