



## Product datasheet

### Anti-iNOS antibody [NOS-IN] ab49999

★★★★★ [5 Abreviews](#) [79 References](#) [2 Images](#)

#### Overview

<b>Product name</b>	Anti-iNOS antibody [NOS-IN]
<b>Description</b>	Mouse monoclonal [NOS-IN] to iNOS
<b>Host species</b>	Mouse
<b>Specificity</b>	This antibody reacts specifically with inducible-type nitricoxide synthase (iNOS, also termed macNOS and mNOS). It does not react with NOS derived from brain.
<b>Tested applications</b>	<b>Suitable for:</b> ICC/IF, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse
<b>Immunogen</b>	Synthetic peptide corresponding to Mouse iNOS aa 1126-1144 conjugated to keyhole limpet haemocyanin. Sequence: FSYGAKKGSALEEPKATRL <div>  <a href="#">Run BLAST with</a>  <a href="#">Run BLAST with</a> </div>
<b>Positive control</b>	WB: Whole cell extract of RAW 264.7 activated with LPS and IFN-gamma. ICC/IF: RAW 264.7 activated with LPS and IFN-gamma.
<b>General notes</b>	<p>This product was changed from ascites to tissue culture supernatant on 17 May 2019. Please note that the dilutions may need to be adjusted accordingly. If you have any questions, please do not hesitate to contact our scientific support team.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.4

	Preservative: 0.087% Sodium azide
	Constituent: 2.93% PBS
<b>Purification notes</b>	This antibody is purified from hybridoma cell culture.
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	NOS-IN
<b>Isotype</b>	IgG1

## Applications

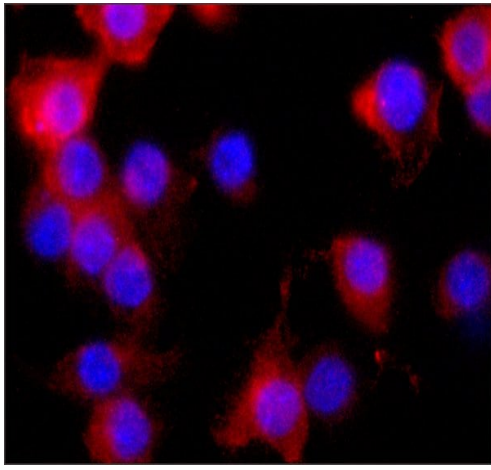
**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab49999 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		Use at an assay dependent concentration.
WB	★★★★★ (4)	Use at an assay dependent concentration. Predicted molecular weight: 131 kDa.

## Target

<b>Function</b>	Produces nitric oxide (NO) which is a messenger molecule with diverse functions throughout the body. In macrophages, NO mediates tumoricidal and bactericidal actions. Also has nitrosylase activity and mediates cysteine S-nitrosylation of cytoplasmic target proteins such COX2.
<b>Tissue specificity</b>	Expressed in the liver, retina, bone cells and airway epithelial cells of the lung. Not expressed in the platelets.
<b>Sequence similarities</b>	Belongs to the NOS family. Contains 1 FAD-binding FR-type domain. Contains 1 flavodoxin-like domain.

## Images

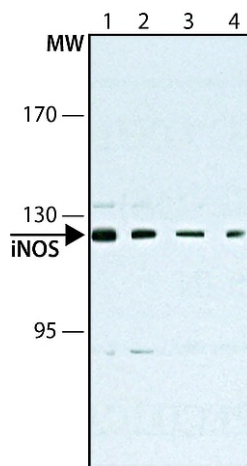


Immunocytochemistry/ Immunofluorescence - Anti-iNOS antibody [NOS-IN] (ab49999)

Immunocytochemistry/ Immunofluorescence analysis of IFN- $\gamma$ /LPS-activated RAW-264.7 (Mouse macrophage cell line transformed with Abelson murine leukemia virus) cells labeling iNOS with ab49999 at 1/2000 dilution.

Cells were fixed and permeabilized with 4% paraformaldehyde and 0.5% Triton™ X-100. The antibody was developed using Goat anti-Mouse IgG, Cy3-conjugate. Cells were counterstained with DAPI (blue) to stain nuclei.

This image was generated using the ascites version of the product.



Western blot - Anti-iNOS antibody [NOS-IN] (ab49999)

**Lane 1 :** Anti-iNOS antibody [NOS-IN] (ab49999) at 1/500 dilution

**Lane 2 :** Anti-iNOS antibody [NOS-IN] (ab49999) at 1/1000 dilution

**Lane 3 :** Anti-iNOS antibody [NOS-IN] (ab49999) at 1/2500 dilution

**Lane 4 :** Anti-iNOS antibody [NOS-IN] (ab49999) at 1/5000 dilution

**All lanes :** IFN-gamma/LPS-activated RAW-264.7 cell extract

#### Secondary

**All lanes :** Goat Anti-Mouse IgG-Peroxidase and chemiluminescent substrate

**Predicted band size:** 131 kDa

This image was generated using the ascites version of the product.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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