Product datasheet

Anti-iNOS antibody [NOS-IN] ab49999

Description
Mouse monoclonal [NOS-IN] to iNOS

Host species
Mouse

Tested applications
Suitable for: ICC/IF, WB

Species reactivity
Reacts with: Mouse, Rat

Immunogen
Synthetic peptide:
FSYGAKKGSALLEPKATRL
conjugated to KLH, corresponding to amino acids 1126-1144 of Mouse iNOS

Positive control
Whole cell extract of the murine macrophage cell line RAW 264.7 activated with LPS and IFN-gamma

Overview

Form
Liquid

Storage instructions
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.

Storage buffer
Preservative: 0.097% Sodium azide
Constituent: Ascites

Purity
Ascites

Clonality
Monoclonal

Clone number
NOS-IN

Isotype
IgG1

Properties

Applications

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.
## Target

### Function

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.

### Tissue specificity

Expressed in the liver, retina, bone cells and airway epithelial cells of the lung. Not expressed in the platelets.

### Sequence similarities

Belongs to the NOS family.
Contains 1 FAD-binding FR-type domain.
Contains 1 flavodoxin-like domain.

## Images

**Immunocytochemistry/ Immunofluorescence** analysis of IFN-γ/LPS-activated RAW-264.7 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.
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

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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