abcam

Product datasheet

Anti-iNOS antibody [K13-A] ab136918

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Overview

Product name	Anti-iNOS antibody [K13-A]
Description	Rabbit monoclonal [K13-A] to iNOS
Host species	Rabbit
Tested applications	**Suitable for:** WB
Species reactivity	**Reacts with:** Mouse **Predicted to work with:** Rat
Immunogen	Synthetic peptide corresponding to a region of Human iNOS.
Epitope	Antibody recognizes the epitope located between Ser1118 - Gly1129
Positive control	Mouse brain tissue lysate - total protein (**ab30151**) can be used as a positive control in WB. Raw264.7 whole cell lysate (LPS treated)
General notes	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. 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&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 8.00 Preservative: 0.05% Sodium azide Constituents: 0.32% Tris HCl, 1% BSA
Purity	Immunogen affinity purified
Purification notes	This immunoglobulin is the product of one single B-cell line from the crude anti-peptide polyclonal anti-serum. This antibody is purified using a proprietary technique and offers a completely post-translationally modified and properly glycosylated antibody. This offers increased stability.
Clonality	Monoclonal

Clone number	K13-A
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab136918 in the following tested applications.

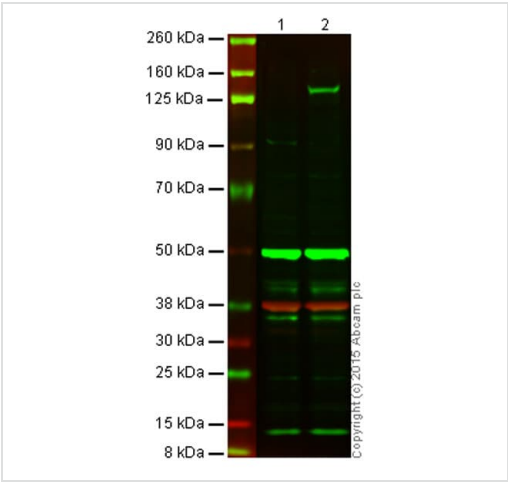
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★ **(2)**	1/2000. Predicted molecular weight: 131 kDa. Incubate the membrane with antibody diluted in blocking buffer for 2 hours at room temperature.

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



Western blot - Anti-iNOS antibody [K13-A] (ab136918)

All lanes : Anti-iNOS antibody [K13-A] (ab136918) at 1/2000 dilution

Lane 1 : Raw264.7 Whole Cell Lysate
Lane 2 : Raw264.7 Whole Cell Lysate (LPS stimulated)

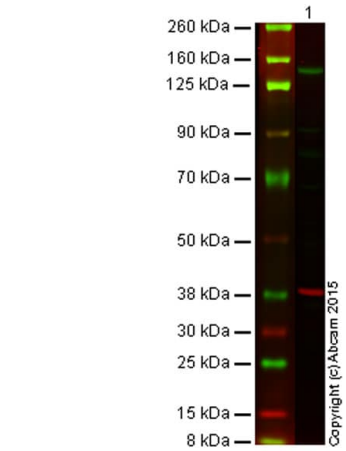
Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat anit Rabbit IR680 at 1/10000 dilution

Performed under reducing conditions.

Predicted band size: 131 kDa
Observed band size: 140 kDa
Additional bands at: 15 kDa, 36 kDa, 42 kDa, 50 kDa. We are unsure as to the identity of these extra bands.

This blot was produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using Licor blocking buffer before being incubated with ab136918 overnight at 4°C. Antibody binding was detected using Goat anti Mouse IR680 at a 1:10,000 dilution for 1hr at room temperature and then imaged using the Licor Odyssey CLx



Western blot - Anti-iNOS antibody [K13-A] (ab136918)

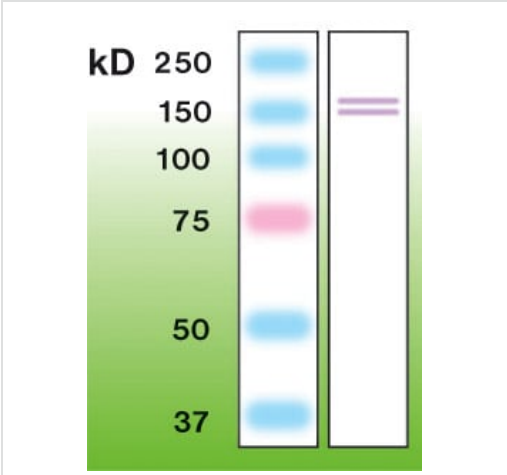
Anti-iNOS antibody [K13-A] (ab136918) at 1/2000 dilution + iNOS Overexpression Lysate (Human) at 0.1 µg

Secondary
Goat anti Rabbit IR680 at 1/10000 dilution

Performed under reducing conditions.

Predicted band size: 131 kDa
Observed band size: 140 kDa

This blot was produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using Licor blocking buffer before being incubated with ab136918 overnight at 4°C. Antibody binding was detected using Goat anti Rabbit IR680 at a 1:10,000 dilution for 1hr at room temperature and then imaged using the Licor Odyssey CLx



Western blot - Anti-iNOS antibody [K13-A] (ab136918)

Anti-iNOS antibody [K13-A] (ab136918) at 1/2000 dilution + Mouse brain lysate at 50 µg

Predicted band size: 131 kDa

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

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