abcam

Product datasheet

Anti-iNOS antibody [EPR16630] ab205529

Recombinant RabMAb

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Overview

Product name	Anti-iNOS antibody [EPR16630]
Description	Rabbit monoclonal [EPR16630] to iNOS
Host species	Rabbit
Tested applications	**Suitable for:** IP, WB, ELISA
Species reactivity	**Reacts with:** Mouse, Rat
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: RAW 264.7 treated with 0.1 µg/ml LPS for 6 hours whole cell lysate, Mouse hippocampus, colon and colon cancer tissue lysates IP: RAW 264.7 treated with 0.1 mg/ml LPS for 6 hours whole cell extract. ELISA: House mouse iNOS antigen.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR16630

Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab205529 in the following tested applications.

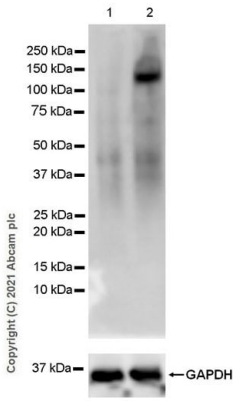
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IP		1/80.
WB	★★★☆☆ (1)	1/1000. Detects a band of approximately 131 kDa (predicted molecular weight: 131 kDa).
ELISA		Use at an assay dependent concentration.

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 [EPR16630] (ab205529)

All lanes : Anti-iNOS antibody [EPR16630] (ab205529) at 1/1000 dilution

Lane 1 : Untreated L6 (rat skeletal muscle myoblast) whole cell lysate

Lane 2 : L6 treated with 50 ng/ml IL-1 beta, 20 ng/ml TNF-alpha and 100U/ml IFN-gamma for 24 h, whole cell lysate

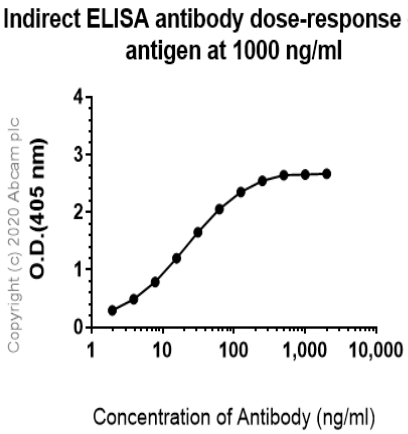
Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

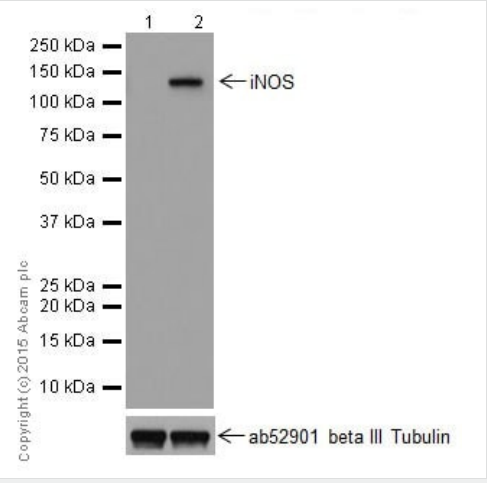
Predicted band size: 131 kDa

The molecular weight observed and the treatment method are consistent with what has been described in the literature (PMID: 12062366)



ELISA - Anti-iNOS antibody [EPR16630] (ab205529)

ELISA analysis of House mouse iNOS recombinant protein at 1000 ng/mL with ab205529. An Alkaline Phosphatase-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L) at 1/2500 dilution was used as the secondary antibody.



Western blot - Anti-iNOS antibody [EPR16630] (ab205529)

All lanes : Anti-iNOS antibody [EPR16630] (ab205529) at 1/1000 dilution

Lane 1 : Untreated RAW 264.7 (Mouse macrophage cells transformed with Abelson murine leukemia virus) whole cell lysate
Lane 2 : RAW 264.7 (Mouse macrophage cells transformed with Abelson murine leukemia virus) treated with 0.1 µg/ml LPS for 6 hours whole cell lysate

Lysates/proteins at 20 µg per lane.

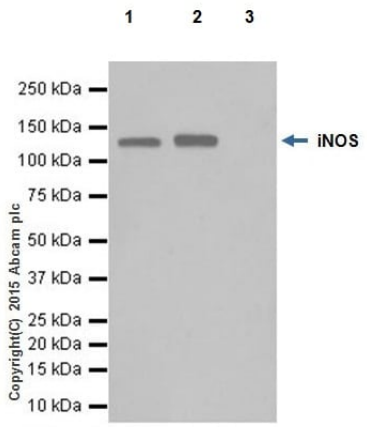
Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/50000 dilution

Developed using the ECL technique.

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

Exposure time: 1 second

Blocking/Dilution buffer: 5% NFDM/TBST.



Immunoprecipitation - Anti-iNOS antibody [EPR16630] (ab205529)

iNOS was immunoprecipitated from 1mg of RAW 264.7 (Mouse macrophage cells transformed with Abelson murine leukemia virus) treated with 0.1 mg/ml LPS for 6 hours whole cell extract with ab205529 at 1/80 dilution. Western blot was performed from the immunoprecipitate using ab205529 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/10000 dilution.

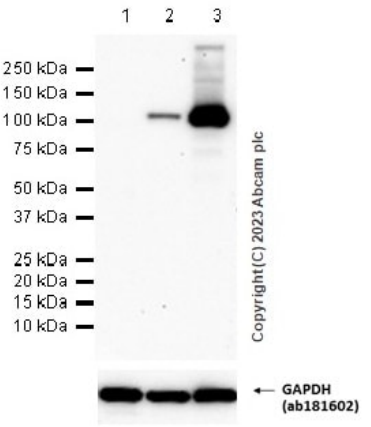
Lane 1: RAW 264.7 treated with 0.1 mg/ml LPS for 6 hours whole cell extract 10ug (Input).

Lane 2: ab205529 IP in RAW 264.7 treated with 0.1 mg/ml LPS for 6 hours whole cell extract.

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab205529 in RAW 264.7 treated with 0.1 mg/ml LPS for 6 hours whole cell extract.

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 8 seconds.



Western blot - Anti-iNOS antibody [EPR16630] (ab205529)

All lanes : Anti-iNOS antibody [EPR16630] (ab205529) at 1/1000 dilution

Lane 1 : Mouse hippocampus tissue lysate
Lane 2 : Mouse colon tissue lysate
Lane 3 : Mouse colon cancer tissue lysate

Lysates/proteins at 20 µg per lane.

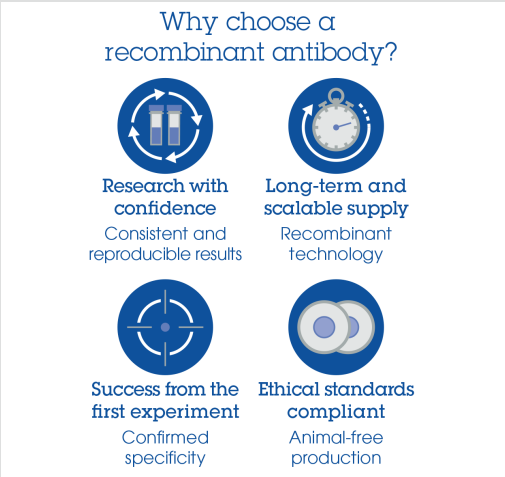
Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

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

Exposure time: 180 seconds

Blocking and dilution buffer: 5% NFDM/TBST

iNOS is not normally expressed in the brain, but can be induced in the brain after inflammatory, infectious, or other damages (PMID:11138926, PMID: 16156895, PMID:10322315).



Anti-iNOS antibody [EPR16630] (ab205529)

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