

Product datasheet

Anti-iNOS antibody [EPR16635-ChiM-IgG2b] ab210823

Recombinant

2 Images

Overview

<b>Product name</b>	Anti-iNOS antibody [EPR16635-ChiM-IgG2b]
<b>Description</b>	Mouse monoclonal [EPR16635-ChiM-IgG2b] to iNOS
<b>Host species</b>	Mouse
<b>Tested applications</b>	<b>Suitable for:</b> WB, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse
<b>Immunogen</b>	Recombinant fragment within Human iNOS aa 1-200. The exact sequence is proprietary. Database link: <a href="#">P35228</a>
<b>Positive control</b>	WB: RAW 264.7 whole cell lysate treated with 0.1 µg/mL LPS for 6 hours. ICC-IF: Raw264.7 cells untreated and LPS treated.
<b>General notes</b>	This mouse antibody has been engineered from a RabMAb parent antibody ( <a href="#">ab178945</a> ). By necessity, some rabbit sequence is retained as part of the variable domain. When multiplexing with other rabbit-derived antibodies, using cross absorbed Fc-reactive secondary antibodies are recommended.

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 long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: PBS, 6.97% L-Arginine
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR16635-ChiM-IgG2b
<b>Isotype</b>	IgG2b
<b>Light chain type</b>	kappa

Applications

## Applications

Our [Abpromise guarantee](#) covers the use of **ab210823** 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		Use a concentration of 5 µg/ml. Detects a band of approximately 131 kDa (predicted molecular weight: 131 kDa).
ICC/IF		Use a concentration of 1 - 5 µg/ml.

## 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.

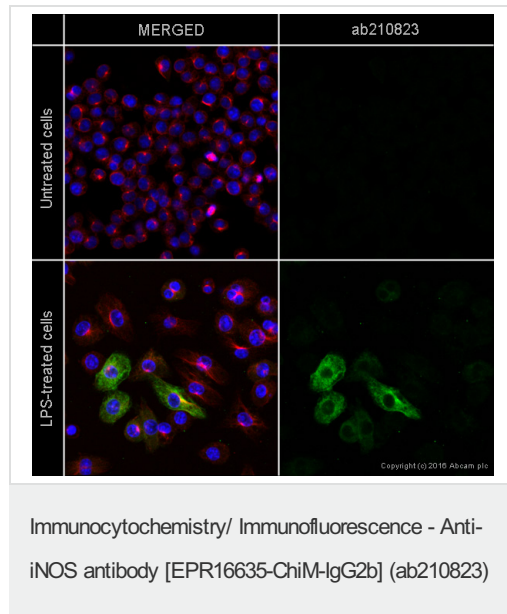
### Tissue specificity

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

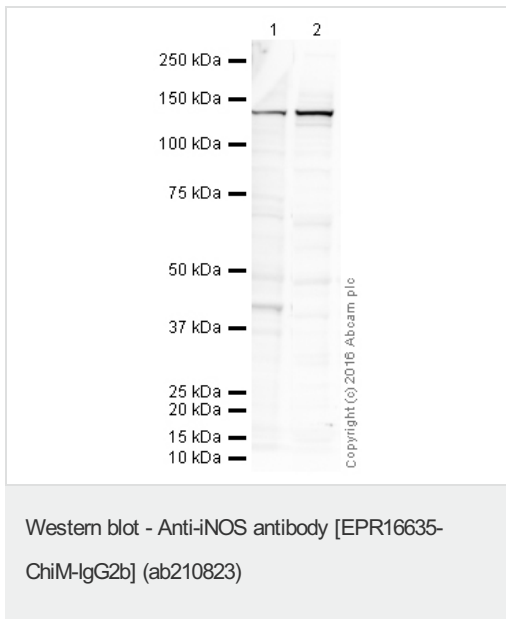
### Sequence similarities

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

## Images



ab210823 stained in Raw264.7 cells. Untreated and LPS treated (1µg/ml, 24 hours) cells were fixed with 100% methanol (5min) at room temperature and incubated with PBS containing 10% goat serum, 0.3 M glycine, 1% BSA and 0.1% triton for 1h at room temperature to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody ab210823 at 5µg/ml overnight at +4°C then detected with an Alexa Fluor® 488 goat anti-mouse secondary antibody ([ab150117](#)) at a 1/1000 dilution (shown in green). [ab206369](#) (Rabbit monoclonal [EPR16774] to beta Tubulin Alexa Fluor® 594) was used as a counterstaining at a 1/200 dilution for 1 hour at room temperature (pseudo-colored red). DAPI was used to stain the cell nuclei (colored blue) at a concentration of 1.43µM for 1 hour at room temperature.



**Lane 1** : Anti-iNOS antibody [EPR16635-ChiM-IgG2b] (ab210823) at 5 µg

**Lane 2** : Anti-iNOS antibody [EPR16635] ([ab178945](#)) at 5 µg

**All lanes** : RAW 264.7 whole cell lysate treated with 0.1 µg/mL LPS for 6 hours

Lysates/proteins at 10 µg per lane.

### Secondary

**Lane 1** : Goat polyclonal to Mouse IgG - H&L - Pre-Adsorbed (HRP) at 1/5000 dilution

**Lane 2** : Peroxidase AffiniPure Goat Anti-Rabbit IgG (H+L) at 1/50000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

**Predicted band size:** 131 kDa

**Observed band size:** 131 kDa

**Exposure time:** 8 minutes

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 3% milk before being incubated with ab210823 (lane 1) and [ab178945](#) (lane 2) overnight at 4°C. Antibody binding was detected using an anti-mouse (lane 1) and anti-rabbit (lane 2) antibody conjugated to HRP, and visualised using ECL development solution [ab133406](#).

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

## **Our Abpromise to you: Quality guaranteed and expert technical support**

---

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
  
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

## **Terms and conditions**

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors