abcam

Product datasheet

Anti-iNOS antibody ab3523

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概述

产品名称	Anti-iNOS抗体
描述	**兔多克隆抗体**to iNOS
宿主	Rabbit
特异性	This antibody detects iNOS. It does not detect other NOS isoforms. By western blot, this antibody detects an ~135 kDa protein representing recombinant human iNOS. By western blot, this antibody also detects purified recombinant mouse iNOS, mouse iNOS from cytokine stimulated RAW 264.7 cells.
经测试应用	**适用于:** IHC-P, WB, ICC/IF
种属反应性	**与反应:** Mouse, Human
免疫原	Synthetic peptide corresponding to Mouse iNOS aa 1-100. Database link: **P29477** Run BLAST with Run BLAST with
阳性对照	ICC: A549, NIH/3T3 cells. IHC-P: Human heart tissue.
常规说明	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

性能

形式	Liquid
存放说明	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.
存储溶液	Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 99% PBS
纯度	Immunogen affinity purified
克隆	**多克隆**
同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab3523于以下的经测试应用**

"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
IHC-P	★★★☆☆ (12)	1/20.
WB	★★★★★ (15)	1/200 - 1/1000. Predicted molecular weight: 131 kDa.
ICC/IF	★★★★★ (2)	1/50.

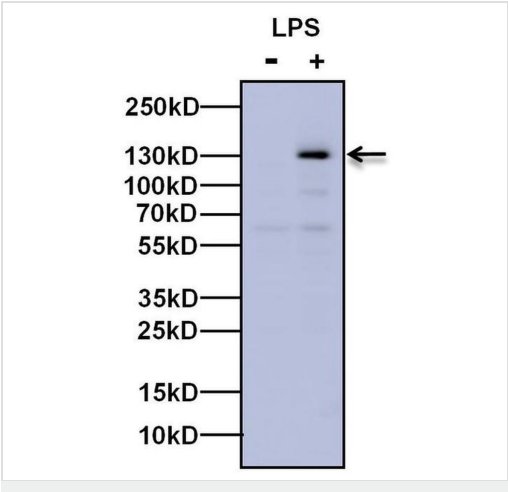
靶标

功能 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.

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

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

图片



Western blot - Anti-iNOS antibody (ab3523)

All lanes : Anti-iNOS antibody (ab3523) at 1/1000 dilution

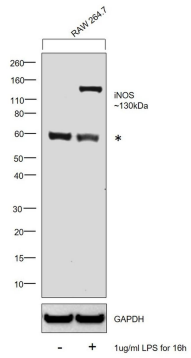
Lane 1 : RAW264 whole cell lysate untreated
Lane 2 : RAW264 whole cell lysate untreated stimulated with LPS at 1 µg/mL for 16 hours

Lysates/proteins at 20 µg per lane.

Secondary
Lane 1 : Goat anti-Rabbit IgG (Heavy Chain) Superclonal Secondary Antibody, HRP conjugate at 1/1000 dilution
Lane 2 : Goat anti-Rabbit IgG (Heavy Chain) HRP conjugate at 1/1000 dilution

Predicted band size: 131 kDa

Using 4-20% Tris-Glycine polyacrylamide gel and transferred to a nitrocellulose membrane, blocked with 5% Milk in TBST for at least 1 hour. The membrane was probed with ab3523 at 4°C overnight on a rocking platform, washed in TBST, and probed with the secondary antibody for 1 hour.



Western blot - Anti-iNOS antibody (ab3523)

All lanes : Anti-iNOS antibody (ab3523) at 1/1000 dilution

Lane 1 : Whole cell lysate of RAW 264.7
Lane 2 : Whole cell lysate of RAW 264.7 treated with LPS

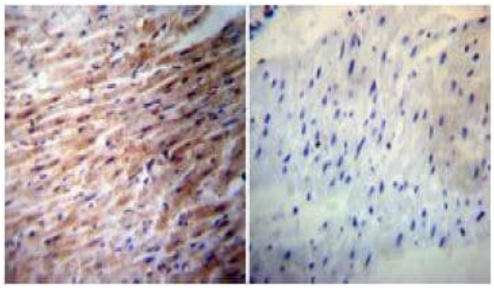
Lysates/proteins at 30 µg per lane.

Secondary
All lanes : Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Recombinant Secondary Antibody, HRP at 1/4000 dilution

Predicted band size: 131 kDa

This was run using 4-12% Bis-Tris Protein Gel and a Nitrocellulose membrane.

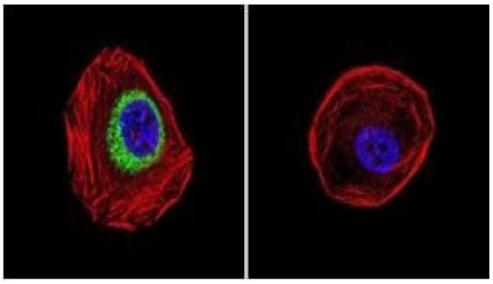
Observed band at 130kDa in LPS treated RAW 264.7 cells, and an uncharacterized band at ~60kDa.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-iNOS antibody (ab3523)

Immunohistochemistry analysis of human heart tissue stained for iNOS without (negative control) or using ab3523 at 1/200 dilution overnight at 4°C in a humidified chamber, followed biotin-conjugated secondary antibody and SA-HRP, followed by colorimetric detection using DAB. Tissues were counterstained with hematoxylin and prepped for mounting. Tissues were washed extensively with PBST and endogenous peroxidase activity was quenched with a peroxidase suppressor.

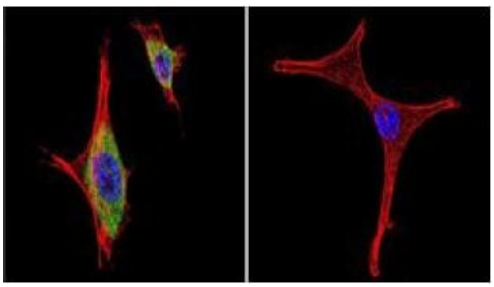
To expose target proteins, heat induced antigen retrieval was performed using 10mM sodium citrate (pH6.0) buffer, microwaved for 8-15 minutes. Following antigen retrieval tissues were blocked in 3% BSA-PBS for 30 minutes at room temperature.



Immunocytochemistry/ Immunofluorescence - Anti-iNOS antibody (ab3523)

Immunofluorescence analysis of A549 (human lung carcinoma cell line) whole cells labelling iNOS (Left panel: green) without (control) or using ab3523 at 1/20 dilution overnight at 4°C, followed DyLight-488 conjugated secondary antibody. Counter stain: F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Images were taken at 60X magnification.

Cells were grown on chamber slides and fixed with formaldehyde prior to staining.



Immunocytochemistry/ Immunofluorescence - Anti-iNOS antibody (ab3523)

Immunofluorescence analysis of NIH/3T3 (mouse embryo fibroblast cell line) whole cells labelling iNOS (Left panel: green) without (control) or using ab3523 at 1/20 dilution overnight at 4°C, followed DyLight-488 conjugated secondary antibody. Counter stain: F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Images were taken at 60X magnification.

Cells were grown on chamber slides and fixed with formaldehyde prior to staining.

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