

Anti-iNOS NOS2 Rabbit Monoclonal Antibody
Catalog # ABO13489**Specification****Anti-iNOS NOS2 Rabbit Monoclonal Antibody - Product Information**

Application	WB, IF, ICC, IP
Primary Accession	P35228
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Human, Mouse
Clonality	Monoclonal
Format	Liquid

Description

Anti-iNOS NOS2 Rabbit Monoclonal Antibody . Tested in WB, ICC/IF, IP applications. This antibody reacts with Human, Mouse.

Anti-iNOS NOS2 Rabbit Monoclonal Antibody - Additional Information

Gene ID 4843

Other Names

Nitric oxide synthase, inducible, 1.14.13.39, Hepatocyte NOS, HEP-NOS, Inducible NO synthase, Inducible NOS, iNOS, NOS type II, Peptidyl-cysteine S-nitrosylase NOS2, NOS2 (http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=7873 target="_blank">HGNC:7873), NOS2A

Calculated MW

131117 MW KDa

Application Details

WB 1:500-1:1000
ICC/IF 1:50-1:200
IP 1:50

Tissue Specificity

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

Contents

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

Immunogen

A synthesized peptide derived from human iNOS

Purification

Affinity-chromatography

Storage

Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated

freeze-thaw cycles.

Anti-iNOS NOS2 Rabbit Monoclonal Antibody - Protein Information

Name NOS2 ([HGNC:7873](#))

Synonyms NOS2A

Function

Produces nitric oxide (NO) which is a messenger molecule with diverse functions throughout the body (PubMed:[7504305](http://www.uniprot.org/citations/7504305), PubMed:[7531687](http://www.uniprot.org/citations/7531687), PubMed:[7544004](http://www.uniprot.org/citations/7544004), PubMed:[7682706](http://www.uniprot.org/citations/7682706)). In macrophages, NO mediates tumoricidal and bactericidal actions. Also has nitrosylase activity and mediates cysteine S-nitrosylation of cytoplasmic target proteins such as PTGS2/COX2 (By similarity). As component of the iNOS-S100A8/9 transnitrosylase complex involved in the selective inflammatory stimulus-dependent S-nitrosylation of GAPDH on 'Cys-247' implicated in regulation of the GAIT complex activity and probably multiple targets including ANXA5, EZR, MSN and VIM (PubMed:[25417112](http://www.uniprot.org/citations/25417112)). Involved in inflammation, enhances the synthesis of pro-inflammatory mediators such as IL6 and IL8 (PubMed:[19688109](http://www.uniprot.org/citations/19688109)).

Cellular Location

Cytoplasm, cytosol. Note=Localizes as discrete foci scattered throughout the cytosol and in the presence of SPSB1 and SPSB4, exhibits a more diffuse cytosolic localization.

Tissue Location

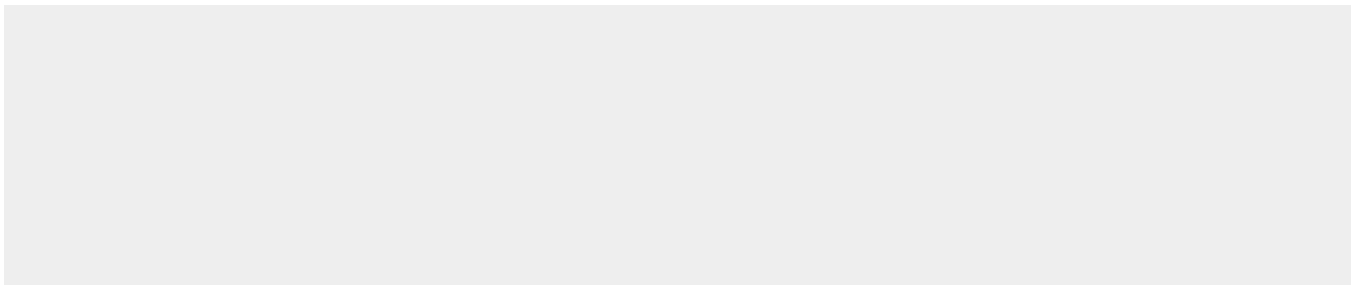
Expressed in the liver, retina, bone cells and airway epithelial cells of the lung. Not expressed in the platelets Expressed in chondrocytes (PubMed:7504305)

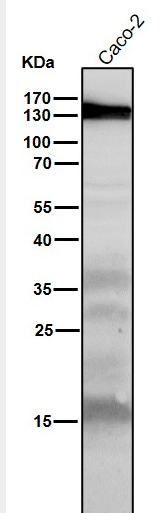
Anti-iNOS NOS2 Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

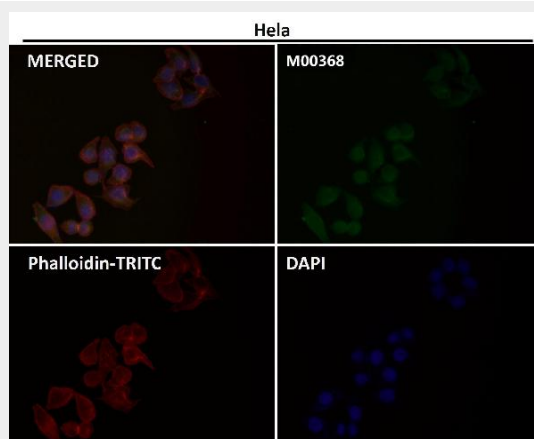
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-iNOS NOS2 Rabbit Monoclonal Antibody - Images

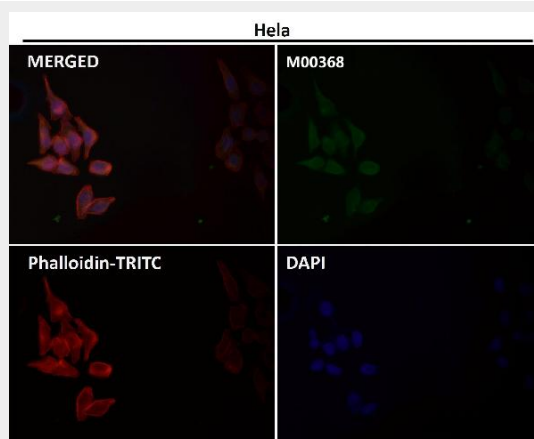




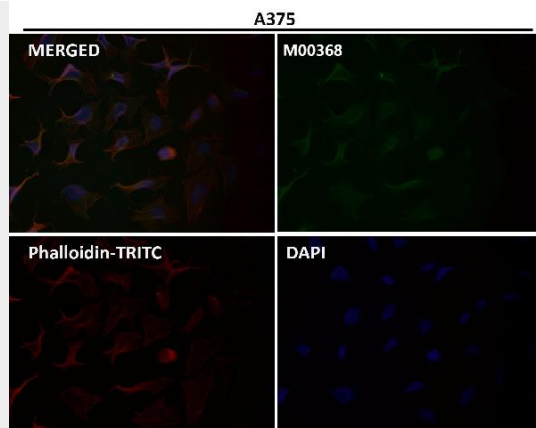
All lanes use the Antibody at 1:1K dilution for 1 hour at room temperature.



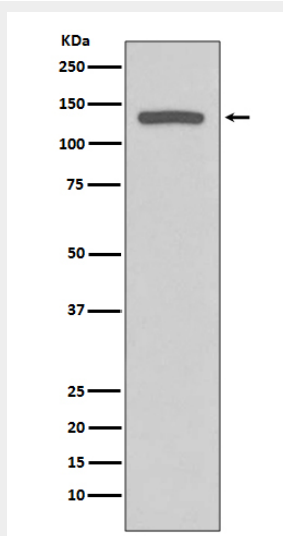
Immunofluorescent analysis using the Antibody at 1:50 dilution.



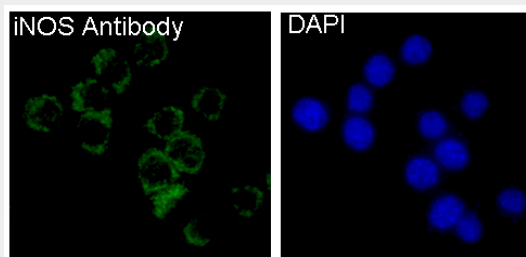
Immunofluorescent analysis using the Antibody at 1:50 dilution.



Immunofluorescent analysis using the Antibody at 1:50 dilution.



Western blot analysis of iNOS expression in Human fetal brain lysate.



Immunofluorescent analysis of Raw264.7 cells treated with LPS, using iNOS Antibody.