

uNOS Monoclonal Antibody (NOS-3F7-B11 B5)

Product Details	
Size	200 µL
Species Reactivity	Bovine, Human, Mouse, Rat
Published Species	Rat, Mouse
Host/Isotype	Mouse / IgM
Class	Monoclonal
Type	Antibody
Clone	NOS-3F7-B11 B5
Conjugate	Unconjugated
Immunogen	Purified bovine bNOS.
Form	Liquid
Concentration	Conc. Not Determined
Storage buffer	ascites
Contains	0.05% sodium azide
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_325476

Applications	Tested Dilution	Publications
Western Blot (WB)	1:50-1:500	2 Publications
Immunohistochemistry (IHC)	-	7 Publications
Immunohistochemistry (Frozen) (IHC (F))	1:100	-
Immunocytochemistry (ICC/IF)	1:20	-
Immunoprecipitation (IP)	Assay-dependent	-

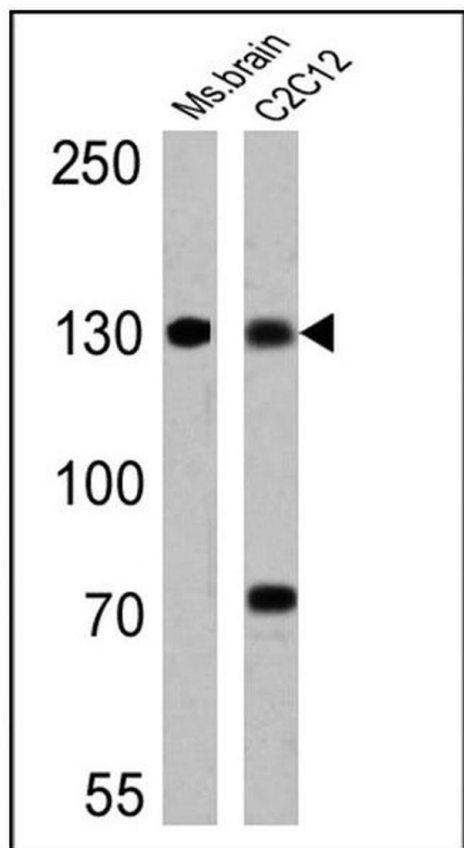
Product Specific Information

MA3-030 detects brain nitric oxide synthase (bNOS), inducible NOS (iNOS) and epithelial NOS (eNOS) in bovine, human, mouse and rat tissues.

MA3-030 has been successfully used in Western blot, immunofluorescence, immunoprecipitation, and immunohistochemical experiments. By Western blot, this antibody detects an ~130 kDa band representing iNOS in samples first induced with interferon (IFN) and lipopolysaccharides (LPS), an ~155 kDa band in tissues expressing bNOS and an ~140 kDa band in tissues expressing eNOS. Immunohistochemical staining of NOS with MA3-030 yields a pattern consistent with that seen in the literature and depends on the tissue being studied and the localization of the isoforms present.

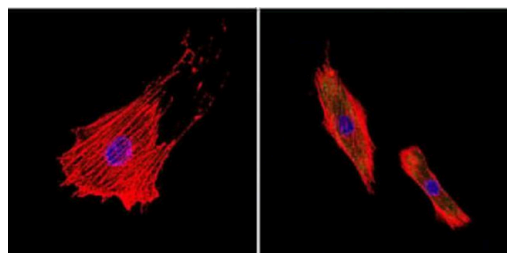
The MA3-030 antigen is purified bovine bNOS.

Product Images For uNOS Monoclonal Antibody (NOS-3F7-B11 B5)



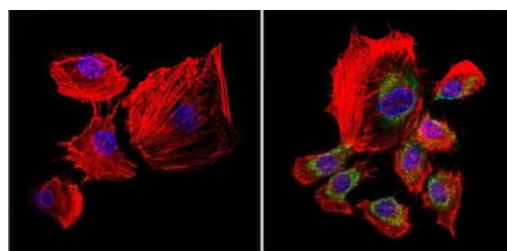
uNOS Antibody (MA3-030) in WB

Western blot analysis of uNOS was performed by loading 25 µg of mouse brain (lane 1) and C2C12 (lane 2) lysates onto an SDS polyacrylamide gel. Proteins were transferred to a PVDF membrane and blocked at 4°C overnight. The membrane was probed with a uNOS monoclonal antibody (Product # MA3-030) at a dilution of 1:100 overnight at 4°C, washed in TBST, and probed with an HRP-conjugated secondary antibody for 1 hr at room temperature in the dark. Chemiluminescent detection was performed using Pierce ECL Plus Western Blotting Substrate (Product # 32132). Results show a band at ~130 kDa.



uNOS Antibody (MA3-030) in ICC/IF

Immunofluorescent analysis of uNOS (green) in SK-N-MC cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes at room temperature and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with a uNOS monoclonal antibody (NOS-3F7-B11 B5) (Product # MA3-030) at a dilution of 1:20 and incubated overnight in a humidified chamber. Cells were washed with PBST and incubated with a DyLight-conjugated secondary antibody for 45 minutes at room temperature in the dark. F-actin (red) was stained with a fluorescent phalloidin and nuclei (blue) were stained with DAPI. Images were taken at a 60X magnification.



uNOS Antibody (MA3-030) in ICC/IF

Immunofluorescent analysis of uNOS (green) in C2C12 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes at room temperature and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with a uNOS monoclonal antibody (NOS-3F7-B11 B5) (Product # MA3-030) at a dilution of 1:20 and incubated overnight in a humidified chamber. Cells were washed with PBST and incubated with a DyLight-conjugated secondary antibody for 45 minutes at room temperature in the dark. F-actin (red) was stained with a fluorescent phalloidin and nuclei (blue) were stained with DAPI. Images were taken at a 60X magnification.

[View more figures on thermofisher.com](https://www.thermofisher.com)

Western Blot (2)

<p>Current issues in molecular biology</p> <p>Peroxiredoxins and Hypoxia-Inducible Factor-1 in Duodenal Tissue: Emerging Factors in the Pathophysiology of Pediatric Celiac Disease Patients.</p> <p>"Published figure using uNOS monoclonal antibody (Product # MA3-030) in Western Blot"</p> <p>Authors: Köse FA,Pabuccuoglu A,Karakoyun M,Aydogdu S</p>	<p>Year 2023</p>
<p>The Journal of biological chemistry</p> <p>Nitric oxide protects cardiac sarcolemmal membrane enzyme function and ion active transport against ischemia-induced inactivation.</p> <p>"MA3-030 was used in western blot to demonstrate the protective effect of nitric oxide on cardiac SL NOSs and sodium /potassium-ATPase against ischemia-induced inactivation."</p> <p>Authors: Xu KY,Kuppusamy SP,Wang JQ,Li H,Cui H,Dawson TM,Huang PL,Burnett AL,Kuppusamy P,Becker LC</p>	<p>Year 2003</p> <p>Species Mouse</p>

Immunohistochemistry (7)

<p>Fundamental & clinical pharmacology</p> <p>Captopril and telmisartan treatments attenuate cadmium-induced testicular toxicity in rats.</p> <p>"MA3-030 was used in immunohistochemistry to study the mechanism by which captopril and telmisartan protect against testicular toxicity induced by cadmium exposure"</p> <p>Authors: Fouad AA,Jresat I</p>	<p>Year 2013</p> <p>Species Rat</p> <p>Dilution 1:100</p>
<p>Molecular biology reports</p> <p>Silibinin ameliorates arsenic induced nephrotoxicity by abrogation of oxidative stress, inflammation and apoptosis in rats.</p> <p>"MA3-030 was used in immunohistochemistry to study the mechanisms by which silibinin protects against nephrotoxicity induced by arsenic"</p> <p>Authors: Prabu SM,Muthumani M</p>	<p>Year 2012</p> <p>Species Rat</p> <p>Dilution 1:100</p>

[View more IHC references on thermofisher.com](#)

More applications with references on thermofisher.com

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON-INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (i) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (ii) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (iii) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (iv) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.