

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

Product Details	
Size	200 µL
Species Reactivity	Bovine, Human, Mouse, Rat
Published Species	Rat, Human, 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	-

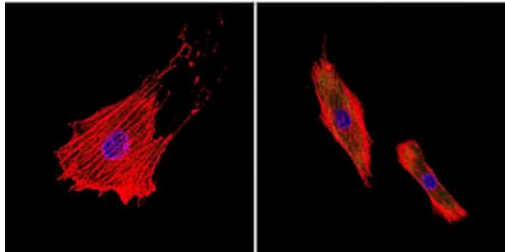
Product Specific Information

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 lipopolysaccarides (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.

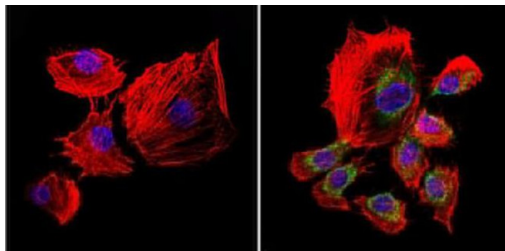
The MA3-030 antigen is purified bovine bNOS.

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



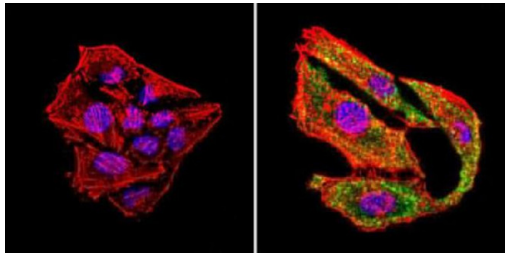
uNOS Antibody (MA3-030) in ICC/IF

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.



uNOS Antibody (MA3-030) in ICC/IF

Immunofluorescent analysis of uNOS (green) in HeLa 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.

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Western Blot (2)

<p>Current issues in molecular biology</p> <p>Peroxisredoxins and Hypoxia-Inducible Factor-1 in Duodenal Tissue: Emerging Factors in the Pathophysiology of Pediatric Celiac Disease Patients.</p> <p>"MA3-030 was used in Western Blotting to investigate the expression levels of all PRDX isoforms (1-6) and their possible relationships with a transcription factor, HIF-1, in the small intestinal tissue samples of pediatric CD patients."</p> <p>Authors: Köse FA,Pabuccuoglu A,Karakoyun M,Aydogdu S</p>	<p>Year 2023</p> <p>Species Human</p> <p>Dilution 1:250</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>

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