# 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 | - |

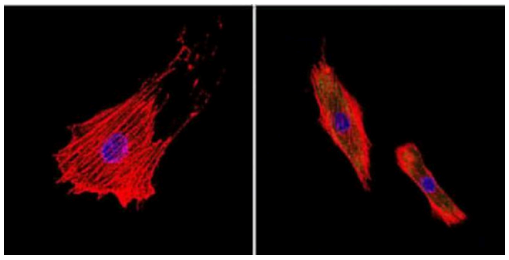
## Product Specific Information

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

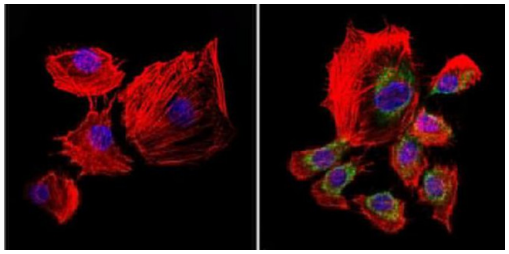
MA3-030 has been successfully used in Western blot, immunofluorescence, immunoprecipitation, and immunohistochemical experiments. By Western blot, this antibody detects an ~130 kDa band representing iNOS in samples first induced with interferon (IFN) and lipopolysaccarides (LPS), an ~155 kDa band in 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.

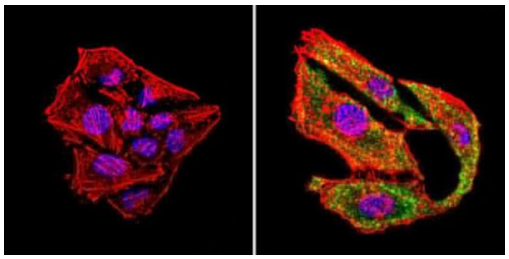
## Product Images For uNOS Monoclonal Antibody (NOS-3F7-B11 B5)



**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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## 9 References

### Western Blot (2)

**Current issues in molecular biology**

#### Peroxiredoxins and Hypoxia-Inducible Factor-1 in Duodenal Tissue: Emerging Factors in the Pathophysiology of Pediatric Celiac Disease Patients.

"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."

Authors: Köse FA,Pabuccuoglu A,Karakoyun M,Aydogdu S

**Year** 2023

**Species** Human

**Dilution** 1:250

**The Journal of biological chemistry**

#### Nitric oxide protects cardiac sarcolemmal membrane enzyme function and ion active transport against ischemia-induced inactivation.

"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."

Authors: Xu KY,Kuppusamy SP,Wang JQ,Li H,Cui H,Dawson TM,Huang PL,Burnett AL,Kuppusamy P,Becker LC

**Year** 2003

**Species** Mouse

### Immunohistochemistry (7)

**Fundamental & clinical pharmacology**

#### Captopril and telmisartan treatments attenuate cadmium-induced testicular toxicity in rats.

"MA3-030 was used in immunohistochemistry to study the mechanism by which captopril and telmisartan protect against testicular toxicity induced by cadmium exposure"

Authors: Fouad AA,Jresat I

**Year** 2013

**Species** Rat

**Dilution** 1:100

**Molecular biology reports**

#### Silibinin ameliorates arsenic induced nephrotoxicity by abrogation of oxidative stress, inflammation and apoptosis in rats.

"MA3-030 was used in immunohistochemistry to study the mechanisms by which silibinin protects against nephrotoxicity induced by arsenic"

Authors: Prabu SM,Muthumani M

**Year** 2012

**Species** Rat

**Dilution** 1:100

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### More applications with references on thermofisher.com