Technical Data Sheet

Purified Mouse Anti-Mouse iNOS

Product Information

610599 **Material Number:** NOS Type II **Alternate Name:** 50 μg Size: **Concentration:** 250 μg/ml 2/iNOS Clone:

Mouse iNOS aa. 772-787 Immunogen:

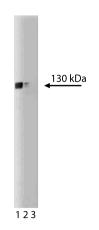
Mouse IgG1 Isotype: QC Testing: Mouse Reactivity:

130 kDa Target MW:

Storage Buffer: Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium

Description

Nitric oxide synthase (NOS), a cell-type specific enzyme, catalyzes the synthesis of nitric oxide (NO). NO is a short-lived radical that transmits cellular signals involved in vasorelaxation, neurotransmission, and cytotoxicity. In macrophages and other cell types, NOS (iNOS or macNOS) activity increases following exposure to cytokines (IFN- γ , TNF- α , and IL-1) and microbial products (lipopolysaccharide (LPS)). iNOS isactivated independently of Ca2+/calmodulin and its level of expression is tightly controlled by several transcription factors, including NFκB. Data indicates that TGF-β affects translation of iNOS mRNA and decreases iNOS protein stability. Normally undetectable in brain tissue, iNOS mRNA has been observed in CNS tissues of animals under experimental pathologic conditions. iNOS and nNOS share 51% amino acid homology with the greatest degree of divergence in the calmodulin binding domain.



Western blot analysis of iNOS/NOS Type II on a cell Ivsate from mouse macrophages (RAW 264.7) stimulated with 10 ng/mL IFN γ and 1 μ g/mL LPS for 12 hours, Lane 1: 1:250, Lane 2: 1:500, Lane 3: 1:1000 dilution of the mouse anti- mouse iNOS/NOS Type II antibody

Preparation and Storage

Store undiluted at -20°C.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Application Notes

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Application		
Western blot	Routinely Tested	
Immunofluorescence	Tested During Development	
Immunoprecipitation	Not Recommended	
Immunohistochemistry	Not Recommended	

Recommended Assay Procedure:

Western blot: Please refer to http://www.bdbiosciences.com/pharmingen/protocols/Western Blotting.shtml

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Suggested Companion Products

Catalog Number	Name	Size	Clone
611473	Mouse Macrophage + IFNγ/LPS Lysate	500 μg	(none)
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)

Product Notices

- 1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
- 2. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
- Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
- 4. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

References

Koprowski H, Zheng YM, Heber-Katz E, et al. In vivo expression of inducible nitric oxide synthase in experimentally induced neurologic diseases. *Proc Natl Acad Sci U S A.* 1993; 90(7):3024-3027. (Biology)

Nathan C, Xie QW. Regulation of biosynthesis of nitric oxide. J Biol Chem. 1994; 269(19):13725-13728. (Biology)

Vodovotz Y, Bogdan C, Paik J, Xie QW, Nathan C. Mechanisms of suppression of macrophage nitric oxide release by transforming growth factor beta. *J Exp Med.* 1993; 178(2):605-613. (Biology)

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