Technical Data Sheet

FITC Mouse Anti-iNOS/NOS Type II

Product Information

610330 **Material Number:** 50 μg Size: **Concentration:** $250 \mu g/ml$

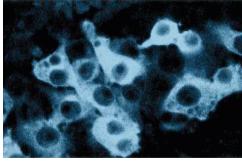
6/iNOS/NOS Type II Clone: Mouse iNOS aa. 961-1144 Immunogen:

Mouse IgG2a Isotype: QC Testing: Mouse Reactivity:

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 is activated 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.



Immunofluorescence staining of iNOS/NOS Type II on mouse macrophages (RAW 264.7) treated with 10 ng/mL IFNγ + 1 µg/mL LPS for 12 hrs.

Preparation and Storage

Store undiluted at -20°C.

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

Application Notes

Application

Fluorescence microscopy Routinely Tested

Product Notices

- Since applications vary, each investigator should titrate the reagent to obtain optimal results.
- 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.
- Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

References

Angulo I, de las Heras FG, Garcia-Bustos JF, Gargallo D, Munoz-Fernandez MA, Fresno M. Nitric oxide-producing CD11b(+)Ly-6G(Gr-1)(+)CD31(ER-MP12)(+) cells in the spleen of cyclophosphamide-treated mice: implications for T-cell responses in immunosuppressed mice. Blood. 2000; 95(1):212-220. (Biology: Flow

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(Biology)

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