Product Information

iNOS Polyclonal Antibody

Catalog No. 160862

Synonyms: Inducible Nitric Oxide Synthase; NOS II
Contents: This vial contains 50 µg protein A-purified IgG in 500 µl TBS, pH 7.4, containing 0.5 mg/ml BSA, 50% glycerol, and 0.02% sodium azide
Host: Rabbit
Antigen: Purified iNOS from cytokine-induced murine macrophages (RAW 264.7 cells)
Cross-reactivity: (+) iNOS from most mammalian species and nNOS (~5%); (-) eNOS
Stability: ≥1 year at -20°C
Applications: Immunoprecipitation, immunocytochemistry Western blot recommended starting dilution: 1:200; .[1-3]

Laboratory Procedures

This vial contains 50 µg of protein-A purified IgG. For long term storage, we suggest the antibody be stored as supplied at -20°C; it will be stable for at least one year. For immunoblotting experiments, dilute 10 µl of the antibody to 10 ml (1:1,000) with any buffer suitable for your experiment. Higher dilutions of the antibody may be necessary if high background is evident, particularly when using ECL. For other applications the working concentration of the antibody must be determined empirically.

Nitric Oxide Synthase (NOS) catalyzes the biosynthesis of nitric oxide from L-arginine. Constitutively expressed NOS is found in brain (nNOS) and endothelial cells (eNOS). iNOS is a soluble enzyme found in a variety of tissues including macrophages, hepatocytes, vascular smooth muscle cells, and chondrocytes.[4,5] iNOS expression is increased by a variety of factors including LPS, IFN-γ, Il-1β, and TNF-α, whereas expression is deceased by dexamethasone.[6-10] The enzyme has been cloned from several species including mouse, rat, and human with homology of at least 80% between these species.[5] The calculated molecular weight of the protein from the deduced amino acid sequence is 130,000 - 131,000.[4]

References

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Related Products

iNOS (murine macrophage) - Cat. No. 60862 • iNOS Electrophoresis Standard - Cat. No. 360862

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