Advanced Targeting Systems

1930 KELLOGG AVENUE
CARLSBAD, CA 92008 USA
01.858.642.1988 • WWW.ATSBIO.COM

Antibody to Nitric Oxide Synthase (3F7-B11-B5)

MOUSE MONOCLONAL

Catalog Number: AB-V54
Quantity: 100 micrograms
Format: PBS (0.14 M Sodium Chloride; 0.003 M Potassium Chloride; 0.002 M Potassium Phosphate; 0.01 M Sodium Phosphate; pH 7.4), no preservative.
Host: Mouse
Isotype: IgM
Clone: 3F7-B11-B5
Immunogen: Bovine cerebellum NOS

Background: Nitric oxide (NO) is a versatile signaling molecule with diverse biological functions across a wide range of species. Its synthesis is catalyzed by nitric oxide synthases (NOS), which function as homodimers. Each NOS monomer contains two fused enzymatic domains: a cytochrome reductase and a cytochrome oxygenase. NOS activity requires three cosubstrates—L-arginine, NADPH, and oxygen—as well as five cofactors or prosthetic groups: FAD, FMN, calmodulin, tetrahydrobiopterin, and heme.

Specificity & Preparation: This IgM mouse antibody is generated against bovine NOS and recognizes bovine, mouse, and rat homologs.

Usage: Applications include western blot and immunohistochemistry. Working dilutions must be determined by end user.

Storage: Store antibody at -20°C for one year. Avoid repeated freezing and thawing. Gently spin down material 5-10 seconds in a microfuge before use.

Scan to view all product references.

Selected References:

1. Rengasamy A, Xue C, Johns RA (1994) Immunohistochemical demonstration of a paracrine role of nitric oxide in bronchial function. 267(6 Pt 1):L704-L711. doi: 10.1152/ajplung.1994.267.6.L704 PMID: 7528982

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