

Anti-eNOS (Ser-1177), Phosphospecific Antibody

Catalog # AN1866

Specification

Anti-eNOS (Ser-1177), Phosphospecific Antibody - Product Information

Primary Accession
Reactivity
Bovine
Host
Rabbit

Clonality Rabbit Polyclonal

Isotype IgG
Calculated MW 133275

Anti-eNOS (Ser-1177), Phosphospecific Antibody - Additional Information

Gene ID 4846

Other Names

endothelial Nitric Oxide Synthase, eNOS, ecNOS, NOS-III, NOS3, NOSIII

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Anti-eNOS (Ser-1177), Phosphospecific Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Shipping

Blue Ice

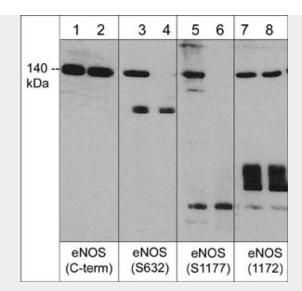
Anti-eNOS (Ser-1177), Phosphospecific Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-eNOS (Ser-1177), Phosphospecific Antibody - Images





Western blot analysis of human umbilical vein endothelial cells treated with calyculin A (100 nM) for 30 min. (lanes 1, 3, 5, & 7) then the blots were treated with lambda phosphatase (lanes 2, 4, 6, & 8). The blots were probed with anti-endothelial nitric oxide synthase (eNOS) (C-terminal region) (lanes 1 & 2), anti-eNOS (Ser-632) (lanes 3 & 4), anti-eNOS (Ser-1177) (lanes 5 & 6), or anti-eNOS (a.a. 1172-1181) (lanes 7 & 8).

Anti-eNOS (Ser-1177), Phosphospecific Antibody - Background

Nitric oxide (NO) has a broad range of biological activities and is implicated in signaling pathways in phylogenetically diverse species. Nitric oxide synthases (NOS), the enzymes responsible for synthesis of NO, are homodimers whose monomers are themselves two fused enzymes: a cytochrome reductase and a cytochrome that requires three cosubstrates (L-arginine, NADPH, and oxygen) and five cofactors or prosthetic groups (FAD, FMN, calmodulin, tetrahydrobiopterin, and heme). Several distinct NOS isoforms are produced from three distinct genes. The inducible form of NOS, iNOS (NOS-II), is Ca2+ independent and is expressed in a broad range of cell types, and two constitutive Ca2+/CaM-dependent forms of NOS: nNOS (bNOS, NOS-I) identified in neurons and eNOS (ecNOS, NOS-III) identified in endothelial cells. Regulation of eNOS activity occurs through phosphorylation at multiple sites. Phosphorylation of Ser-633 (mouse Ser-632) in the FMN binding domain increases eNOS activity and may be important for the maintenance of NO synthesis after initial activation by Ca2+ flux and Ser-1177 phosphorylation.