10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-eNOS (C-terminal region) Antibody
Catalog # AN1863

Specification

Anti-eNOS (C-terminal region) Antibody - Product Information

Primary Accession	P29474
Reactivity	**Bovine**
Host	**Rabbit**
Clonality	**Rabbit Polyclonal**
Isotype	**IgG**
Calculated MW	**133275**

Anti-eNOS (C-terminal region) 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 (C-terminal region) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Shipping
Blue Ice

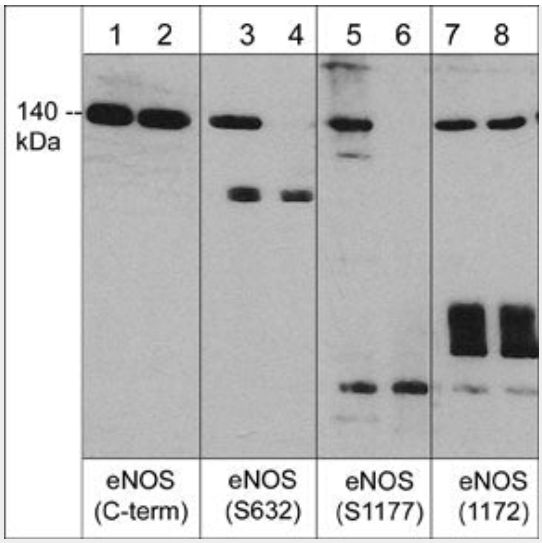
Anti-eNOS (C-terminal region) Antibody - Protocols

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 (C-terminal region) Antibody - Images

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



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) and anti-eNOS (a.a. 1172-1181) (lanes 7 & 8).

Anti-eNOS (C-terminal region) 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.