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eNOS Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1327a

Specification

eNOS Antibody - Product Information

Application	**IHC, E**
Primary Accession	P29474
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG1**
Calculated MW	**133kDa KDa**

Description
Endothelial nitric-oxide synthase (eNOS), also known as NOS3, it is an important enzyme in the cardiovascular system. It is a reactive free radical which acts as a biologic mediator in several processes, including neurotransmission and antimicrobial and antitumoral activities. Nitric oxide is synthesized from L-arginine by nitric oxide synthases. Variations in this gene are associated with susceptibility to coronary spasm.

Immunogen
Purified recombinant fragment of human eNOS expressed in E. Coli.

Formulation
Ascitic fluid containing 0.03% sodium azide.

eNOS Antibody - Additional Information

Gene ID 4846

Other Names
Nitric oxide synthase, endothelial, 1.14.13.39, Constitutive NOS, cNOS, EC-NOS, Endothelial NOS, eNOS, NOS type III, NOSIII, NOS3

Dilution
IHC~~1/200 - 1/1000
E~~N/A

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
eNOS Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

eNOS Antibody - Protein Information

Name NOS3 (HGNC:7876)

Function
Produces nitric oxide (NO) which is implicated in vascular smooth muscle relaxation through a cGMP-mediated signal transduction pathway (PubMed:1378832). NO mediates vascular endothelial growth factor (VEGF)-induced angiogenesis in coronary vessels and promotes blood clotting through the activation of platelets.

Cellular Location
Cell membrane. Membrane, caveola. Cytoplasm, cytoskeleton. Golgi apparatus. Note=Specifically associates with actin cytoskeleton in the G2 phase of the cell cycle; which is favored by interaction with NOSIP and results in a reduced enzymatic activity

Tissue Location
Platelets, placenta, liver and kidney.

eNOS 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

eNOS Antibody - Images

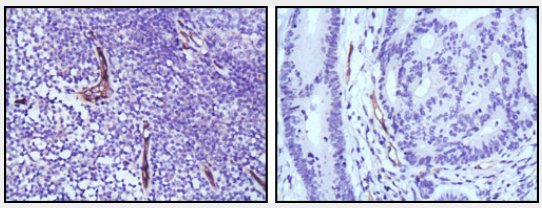

Figure 1: Immunohistochemical analysis of paraffin-embedded human lymph node (left) and colon cancer (right) tissues using eNOS mouse mAb with DAB staining.

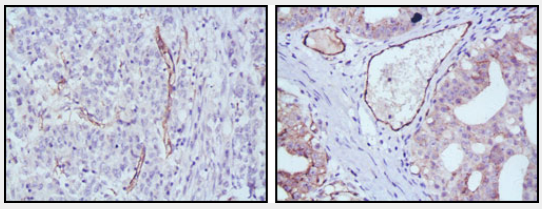

Figure 2: Immunohistochemical analysis of paraffin-embedded human stomach cancer (left) and ovary cancer (right) tissues using eNOS mouse mAb with DAB staining.

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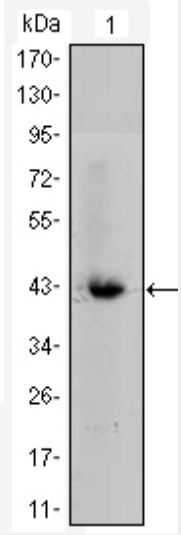

Figure 1: Western blot analysis using CTNNB1 mouse mAb against CTNNB1-hIgGFc transfected HEK293 cell lysate.

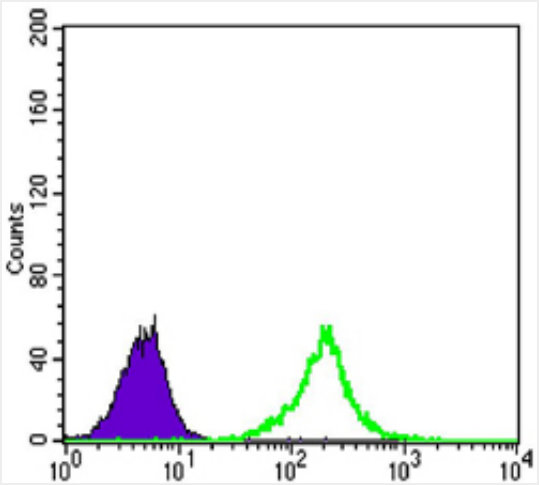

Figure 4: Flow cytometric analysis of A549 cells using CTNNB1 mouse mAb (green) and negative control (purple).

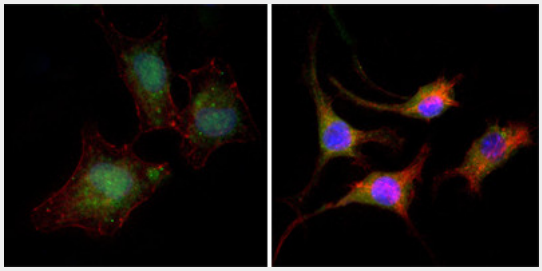

Figure 2:Immunofluorescence analysis of A549 (left) and SK-BR-3 (right) cells using anti-CTNNB1 mAb (green). Red: Actin filaments have been labeled with DY-554 phalloidin. Blue: DRAQ5 fluorescent DNA dye.

eNOS Antibody - References

1. Nature. 1999 Jun 10;399(6736):601-5. 2. Oncol Rep. 2004 Nov;12(5):1007-11. 3. Breast Cancer Res Treat. 2008 May;109(1):181-2.