

ARG23708 anti-eNOS antibody [M221]

Package: 50 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [M221] recognizes eNOS
Tested Reactivity	Hu, Ms, Rat
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Mouse
Clonality	Monoclonal
Clone	M221
Isotype	IgG1
Target Name	eNOS
Species	Mouse
Immunogen	Recombinant protein around the C-terminus region of Mouse eNOS. This sequence is conserved in Human and Rat eNOS, and has low homology to other NOS family members.
Conjugation	Un-conjugated
Alternate Names	Constitutive NOS; NOS type III; Nitric oxide synthase, endothelial; Endothelial NOS; eNOS; EC-NOS; NOSIII; cNOS; EC 1.14.13.39; ECNOS

Application Instructions

Application table	Application	Dilution
	FACS	Assay-dependent
	ICC/IF	1:50
	IHC-P	1:500 - 1:1000
	WB	1:1000
Application Note	WB: Antibody is suggested to be diluted in 5% skimmed milk/Tris buffer with 0.04% Tween20 and incubated for 1 hour at room temperature. IHC-P: Antigen Retrieval: Heat mediation was performed in 10 mM Citrate buffer (pH 6.0). * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

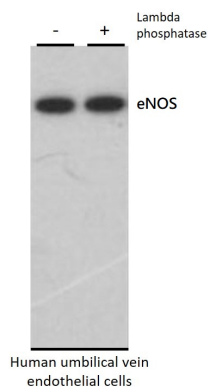
Properties

Form	Liquid
Purification	Protein A
Buffer	PBS, 0.05% Sodium azide, 50% Glycerol and 1 mg/ml BSA.
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Bioinformation

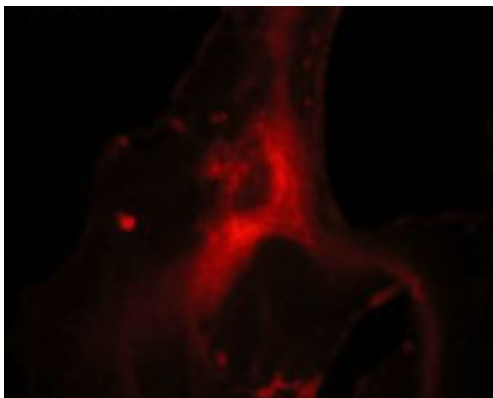
Gene Symbol	NOS3
Gene Full Name	nitric oxide synthase 3 (endothelial cell)
Background	Nitric oxide is a reactive free radical which acts as a biologic mediator in several processes, including neurotransmission and antimicrobial and antitumoral activities. Nitric oxide is synthesized from L-arginine by nitric oxide synthases. Variations in this gene are associated with susceptibility to coronary spasm. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2009]
Function	<p>Produces nitric oxide (NO) which is implicated in vascular smooth muscle relaxation through a cGMP-mediated signal transduction pathway. NO mediates vascular endothelial growth factor (VEGF)-induced angiogenesis in coronary vessels and promotes blood clotting through the activation of platelets.</p> <p>Isoform eNOS13C: Lacks eNOS activity, dominant-negative form that may down-regulate eNOS activity by forming heterodimers with isoform 1. [UniProt]</p>
Calculated Mw	133 kDa
PTM	Phosphorylation by AMPK at Ser-1177 in the presence of Ca(2+)-calmodulin (CaM) activates activity. In absence of Ca(2+)-calmodulin, AMPK also phosphorylates Thr-495, resulting in inhibition of activity (By similarity). Phosphorylation of Ser-114 by CDK5 reduces activity. [UniProt]

Images



ARG23708 anti-eNOS antibody [M221] WB image

Western blot: Human umbilical vein endothelial cells untreated (left) or treated (right) with lambda phosphatase. The blots were stained with ARG23708 anti-eNOS antibody [M221].



ARG23708 anti-eNOS antibody [M221] ICC/IF image

Immunofluorescence: Paraformaldehyde-fixed and NP-40-permeabilized Human umbilical vein endothelial cells. The cells were stained with ARG23708 anti-eNOS antibody [M221].