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PRODUCT DATASHEET

Anti-eNOS (Ser-1177), Phosphospecific Antibody

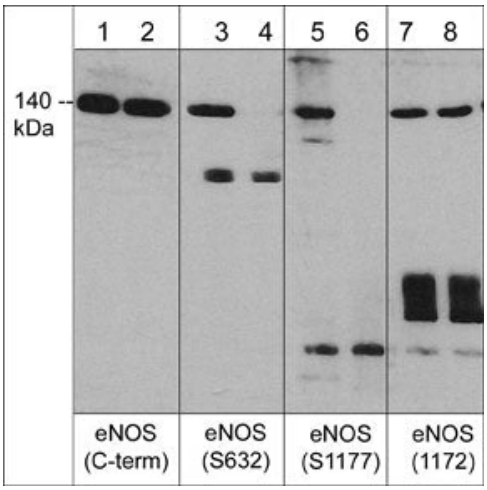
phosphosolutions ANTIBODIES THAT WORK

Product Details

Available Variants	100 µL (SKU:NP4051)
Conjugate	Unconjugated
Isotype	IgG
Gene Name	NOS3
Host Species	Rabbit
Format	Antigen Affinity Purified
Physical State	Liquid
Buffer	PBS + 1 mg/ml BSA, 0.05% NaN3 and 50% glycerol
Applications	ELISA, WB
Dilution Ranges	WB: 1:1000
Species Reactivity	Human, Mouse, Rat
Immunogen	Phospho-eNOS (Ser-1177) synthetic peptide (coupled to carrier protein) corresponds to amino acids surrounding Ser-1177 in human eNOS. This sequence is conserved in rat and mouse eNOS.
Specificity	The antibody detects a 140 kDa* band corresponding to eNOS on SDS-PAGE immunoblots of human umbilical vein endothelial cells grown normally or treated with calyculin A. This reactivity is not observed after lambda phosphatase treatment.
Molecular Weight	140
Quality Control	Western blots performed on each lot.
Storage	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C.

UniProt ID	P29474 UniProt Summary: 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.
Country of Origin	United States
Shipping	Blue Ice
Expiration	After date of receipt, stable for at least 1 year at -20°C.
Usage Statement	For research use only. Not intended for therapeutic or diagnostic use. Use of all products is subject to our terms and conditions, which can be viewed on our website.
Post Translational Modification Type	Phosphorylated
Post Translational Modification Residue	Ser-1177
NCBI Gene ID	4846

Product 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).