

AB-PN712

NOS3-pT1175+pS1177 Antibody

Phosphosite-specific rabbit polyclonal antibody for NOS3 (eNOS)



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Target Protein

Protein Name Long:	Nitric oxide synthase, endothelial
Protein Alias:	CNOS; Constitutive NOS; ECNOS; EC-NOS; Endothelial nitric oxide synthase; Endothelial NOS; Nitric oxide synthase 3 (endothelial cell); Nitric-oxide synthase, endothelial; NOS type III; NOSIII; Endothelial NOS; eNOS; Constitutive NOS; cNOS; NOS, type III; NOS3; NOSIII
UniProt ID:	P29474
Protein Molecular Mass:	133,289 Da (1,203 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human NOS3
Antibody Immunogen Sequence:	RIR(pT)Q(pS)FSL(βA)C
Antibody Immunogen Description:	Corresponds to amino acid residues R1172 to L1180. T1175+S1177 phosphorylation stimulates enzyme activity. These are two of the major <i>in vivo</i> phosphorylation sites in NOS3 (≥17 and >22 reports, respectively, by mass spectrometry). These phosphosites are not highly conserved in vertebrates, but are found in the rat. NOS3 is known to be phosphorylated <i>in vitro</i> at S1177 by Akt1 (PKBa), AMPKa1 (PRKAA1), PKACa (PRKACA), PKCd (PRKCD), and PKG2 (PRKG2).
Antibody Target Type:	Phosphosite-specific

Production

Antibody Host Species:	Rabbit
Antibody Type:	Polyclonal
Antibody Isotype:	IgG
Production Method:	The immunizing peptide was produced by solid phase synthesis on a multi-peptide synthesizer and purified by reverse-phase hplc chromatography. Purity was assessed by analytical hplc and the amino acid sequence confirmed by mass spectrometry analysis. This peptide was coupled to KLH prior to immunization into rabbits. New Zealand White rabbits were subcutaneously injected with KLH-coupled immunizing peptide every 4 weeks for 4 months. The sera from these animals was applied onto an agarose column to which the immunogen peptide was thio-linked. Antibody was eluted from the column with 0.1 M glycine, pH 2.5. Subsequently, the antibody solution was neutralized to pH 7.0 with saturated Tris.
Amount:	25 µg
Antibody Concentration:	0.75 mg/ml
Storage Buffer:	Phosphate buffered saline pH 7.4, 0.05% Thimerosal
Storage Conditions:	For long term storage, keep frozen at -40°C or lower. Stock solution can be kept at +4°C for more than 3 months. Avoid repeated freeze-thaw cycles.
Storage Stability:	>2 years

Applications

Product Use:	Western blotting Antibody microarray
Antibody Dilution Recommended:	2 µg/ml for immunoblotting
Antibody Species Reactivity:	Human Rat Mouse

This product is for *in vitro* research use only and is not intended for use in humans or animals.

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