

Rabbit Anti-NOS3 Polyclonal Antibody

CPB-711RH Rabbit(NOS3)

Lot. No. (See product label)

PRODUCT INFORMATION

Product Overview	Rabbit Anti-NOS3 Polyclonal Antibody
Antigen Description	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.
specificity	The antibody detects endogenous level of NOS3 only when phosphorylated at serine 1177.
Target	NOS3
Immunogen	Peptide sequence around phosphorylation site of serine 1177 (T-Q-S(p)-F-S) derived from Human NOS3.
Host	Rabbit
Species	Human
Cross Reactivity	Human; Mouse; Rat
conjugation	N/A
Applications	IFA,IHC

PACKAGING

Format	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C /1 year

ANTIGEN GENE INFORMATION

Gene Name	NOS3 nitric oxide synthase 3 (endothelial cell) [Homo sapiens]
Official Symbol	NOS3
Synonyms	NOS3; nitric oxide synthase 3 (endothelial cell); nitric oxide synthase, endothelial; ECNOS; endothelial nitric oxide synthase; eNOS; cNOS; EC-NOS; NOSIII; NOS type III; endothelial NOS; constitutive NOS;
GeneID	4846
mRNA Refseq	NM_000603
Protein Refseq	NP_000594
UniProt ID	P29474
Chromosome Location	7q36

Pathway	ACE Inhibitor Pathway, organism-specific biosystem; Angiopoietin receptor Tie2-mediated signaling, organism-specific biosystem; Arginine and proline metabolism, organism-specific biosystem; Arginine and proline metabolism, conserved biosystem; Calcium signaling pathway, organism-specific biosystem; Calcium signaling pathway, conserved biosystem; Hemostasis, organism-specific biosystem;
Function	FMN binding; NADP binding; actin monomer binding; arginine binding; cadmium ion binding; calmodulin binding; flavin adenine dinucleotide binding; heme binding; metal ion binding; nitric-oxide synthase activity; oxidoreductase activity; protein binding; tetrahydrobiopterin binding;