

**eNOS (phospho Ser1177) rabbit pAb****Cat#: orb764317 (Manual)**

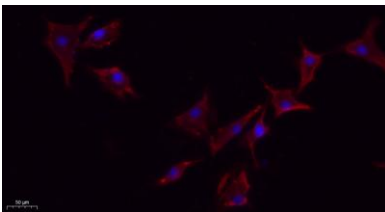
For research use only. Not intended for diagnostic use.

<b>Product Name</b>	eNOS (phospho Ser1177) rabbit pAb
<b>Host species</b>	Rabbit
<b>Applications</b>	WB;IF;ELISA
<b>Species Cross-Reactivity</b>	Human;Mouse;Rat
<b>Recommended dilutions</b>	Western Blot: 1/500 - 1/2000. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human eNOS around the phosphorylation site of Ser1176. AA range:1144-1193
<b>Specificity</b>	Phospho-NOS3 (S1177) Polyclonal Antibody detects endogenous levels of NOS3 protein only when phosphorylated at S1177.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide..
<b>Storage</b>	Store at -20°C. Avoid repeated freeze-thaw cycles.
<b>Protein Name</b>	Nitric oxide synthase endothelial
<b>Gene Name</b>	NOS3
<b>Cellular localization</b>	Cell membrane. Membrane, caveola. Cytoplasm, cytoskeleton. Golgi apparatus. 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.
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

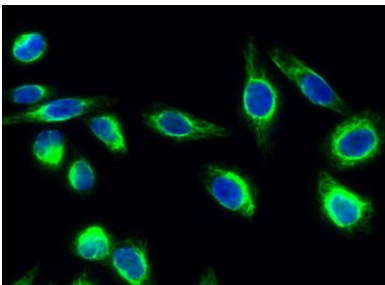
<b>Clonality</b>	Polyclonal
<b>Concentration</b>	1 mg/ml
<b>Observed band</b>	130-140kD
<b>Human Gene ID</b>	4846
<b>Human Swiss-Prot Number</b>	P29474
<b>Alternative Names</b>	NOS3; Nitric oxide synthase; endothelial; Constitutive NOS; cNOS; EC-NOS; Endothelial NOS; eNOS; NOS type III; NOSIII

## Background

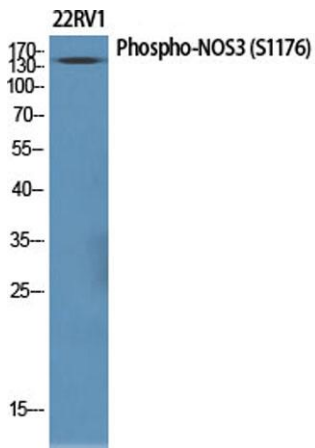
Nitric oxide is a reactive free radical which acts as a biologic mediator in several processes, including neurotransmission and antimicrobial and antitumoral activities. Nitric oxide is synthesized from L-arginine by nitric oxide synthases. Variations in this gene are associated with susceptibility to coronary spasm. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2009],



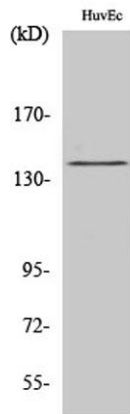
**Immunofluorescence analysis of A549. 1,primary Antibody(red) was diluted at 1:200(4°C overnight). 2, Goat Anti Rabbit IgG (H&L) - Alexa Fluor 594 Secondary antibody was diluted at 1:1000(room temperature, 50min).3, Picture B: DAPI(blue) 10min.**



**Immunofluorescence analysis of HeLa cell. 1,NOS3 (phospho Ser1177) Polyclonal Antibody(green) was diluted at 1:200(4° overnight). 2, Goat Anti Rabbit Alexa Fluor 488 Catalog:RS3211 was diluted at 1:1000(room temperature, 50min). 3 DAPI(blue) 10min.**



**Western Blot analysis of various cells using Phospho-NOS3 (S1177) Polyclonal Antibody diluted at 1:1000**



**Western Blot analysis of HuvEc cells using Phospho-NOS3 (S1177) Polyclonal Antibody diluted at 1:1000**