

# Human Phospho-eNOS (S1177) Antibody

Recombinant Monoclonal Rabbit IgG Clone # 1014F Catalog Number: MAB9028

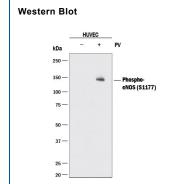
DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human eNOS when phosphorylated at S1177 in direct ELISAs and Western blots.
Source	Recombinant Monoclonal Rabbit IgG Clone # 1014F
Purification	Protein A or G purified from cell culture supernatant
Immunogen	Phosphopeptide containing the human eNOS S1177 site Accession # P29474
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

#### APPLICATIONS

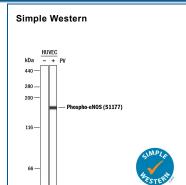
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended	Sample
	Concentration	Cumple
Western Blot	0.5 μg/mL	See Below
Simple Western	10 μg/mL	HUVEC human umbilical vein endothelial cells treated with Pervanadate

# DATA



Detection of Human eNOS by Western Blot. Western blot shows lysates of HUVEC human umbilical vein endothelial cells untreated (-) or treated (+) with 100 µM Pervanadate (PV) for 10 minutes. PVDF membrane was probed with 0.5 µg/mL of Rabbit Anti-Human Phospho-eNOS (S1177) Monoclonal Antibody (Catalog # MAB9028) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # Catalog # HAF008). A specific band was detected for eNOS at approximately 140 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.



Detection of Human eNOS by Simple Western M. Simple Western lane view shows lysates of HUVEC human umbilical vein endothelial cells untreated (-) or treated (+) with Pervanadate (PV), loaded at 0.2 mg/mL. A specific band was detected for eNOS at approximately 141 kDa (as indicated) using 10 µg/mL of Rabbit Anti-Human PhosphoeNOS (S1177) Monoclonal Antibody (Catalog # MAB9028). This experiment was conducted under reducing conditions and using the 66-440 kDa separation system.

### PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS
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**Shipping**The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

\*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

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- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

## BACKGROUND

Endothelial NOS (eNOS), also known as nitric oxide synthase 3 (NOS3) or constitutive NOS (cNOS), is an enzyme encoded by the NOS3 gene. Endothelial NOS generates nitric oxide in blood vessels and is involved with regulating vascular tone by inhibiting smooth muscle contraction and platelet aggregation. A constitutive calcium dependent NOS provides a basal release of NO. eNOS is associated with plasma membranes surrounding cells and the membranes of the Golgi apparatus within cells.

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