Human eNOS Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF950

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human eNOS in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human eNOS
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 as a 0.2 μm filtered solution in PBS.

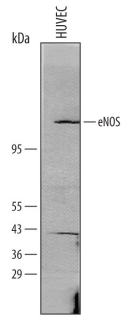
APPLICATIONS

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 Concentration	Sample
Western Blot	1 µg/mL	See Below
Immunohistochemistry	5-15 µg/mL	Immersion fixed paraffin-embedded sections of human placenta subjected to Antigen Retrieval Reagent-Basic (Catalog # CTS013)
Immunoprecipitation	0.3 µg/10^6 cells	See Below
Simple Western	10 µg/mL	See Below

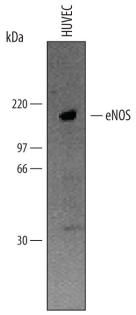
DATA

Western Blot



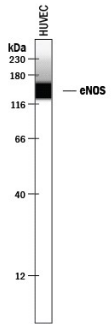
Detection of Human eNOS by Western Blot. Western blot shows lysates of HUVEC human umbilical vein endothlial cells. PVDF membrane was probed with 1 µg/mL of Goat Anti-Human eNOS Affinity-purified Polyclonal Antibody (Catalog # AF950) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for eNOS at approximately 130-140 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.

Immunoprecipitation



Immunoprecipitation of Human eNOS. eNOS was immunoprecipitated from lysates (1 x 10^6 cells) of HUVEC human umbilical vein endothelial cells following incubation with 0.3 µg Goat Anti-Human eNOS Antigen Affinity-purified Polyclonal Antibody (Catalog # AF950). Immunoprecipitated eNOS was detected by Western blot using 1 µg/mL Human eNOS Antigen Affinity-purified Polyclonal Antibody (Catalog # AF950). View our recommended buffer recipes for immunoprecipitation.

Simple Western



Detection of Human eNOS by Simple Western™. Simple Western lane view shows lysates of HUVEC human umbilical vein endothelial cells, loaded at 0.2 mg/mL. A specific band was detected for eNOS at approximately 139 kDa (as indicated) using 10 µg/mL of Goat Anti-Human eNOS Antigen Affinity-purified Polyclonal Antibody (Catalog # AF950) followed by 1:50 dilution of HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
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
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 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.

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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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