

#35362 Store at -20°C

## eNOS (D8A6N) Rabbit mAb



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IHC-P	H B	Endogenous	140	Rabbit IgG	#P29474	4846

### Product Usage Information

#### Application

Western Blotting  
Immunohistochemistry (Paraffin)

#### Dilution

1:1000  
1:100

### Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

### Specificity / Sensitivity

eNOS (D8A6N) Rabbit mAb recognizes endogenous levels of total eNOS protein. This antibody does not cross-react with iNOS or nNOS proteins.

### Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro1190 of human eNOS protein.

### Background

Endothelial nitric-oxide synthase (eNOS) is an important enzyme in the cardiovascular system. It catalyzes the production of nitric oxide (NO), a key regulator of blood pressure, vascular remodeling, and angiogenesis (1,2). The activity of eNOS is regulated by phosphorylation at multiple sites. The two most thoroughly studied sites are the activation site Ser1177 and the inhibitory site Thr495 (3). Several protein kinases including Akt/PKB, PKA, and AMPK activate eNOS by phosphorylating Ser1177 in response to various stimuli (4,5). In contrast, bradykinin and H<sub>2</sub>O<sub>2</sub> activate eNOS activity by promoting both Ser1177 phosphorylation and Thr495 dephosphorylation (6,7).

### Background References

1. Fulton, D. et al. (2001) *J Pharmacol Exp Ther* 299, 818-24.
2. Shaul, P.W. (2002) *Annu Rev Physiol* 64, 749-74.
3. Chen, Z.P. et al. (1999) *FEBS Lett* 443, 285-9.
4. Dimmeler, S. et al. (1999) *Nature* 399, 601-5.
5. Fulton, D. et al. (1999) *Nature* 399, 597-601.
6. Harris, M.B. et al. (2001) *J Biol Chem* 276, 16587-91.
7. Thomas, S.R. et al. (2002) *J Biol Chem* 277, 6017-24.

### Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

### Western Blot Buffer

**IMPORTANT:** For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

### Applications Key

**WB:** Western Blotting **IHC-P:** Immunohistochemistry (Paraffin)

### Cross-Reactivity Key

**H:** human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster **X:** Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse **GP:** Guinea Pig **Rab:** rabbit **All:** all species expected

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