



## Mouse Monoclonal Antibody eNOS conjugated to Sepharose Beads

CatalogNo: **ANT8291-S**

Size 200ul

Storage Store at 4 °C for frequent use

### Description

This Antagene antibody is immobilized via covalent binding of primary amino groups to N-hydroxysuccinimide (NHS)-activated sepharose beads. It is useful for immunoprecipitation assays.

### eNOS (ANT0054R) Rabbit mAb

Formulation: 50% slurry in PBS pH 7.2 with 0.01mg NaN<sub>3</sub> preservative.

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat,

#### Applications

- WB, IHC, IF, IP, ELISA

#### MW

- 133kD (Calculated)  
133kD (Observed)

#### Isotype

- IgG, Kappa

## Recommended Dilution Ratios

### IP

## Basic Information

Clonality	Monoclonal
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Clone Number	ANT0054R
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# Immunogen Information

**Specificity** Endogenous

**Gene name** NOS3

**Protein Name** Nitric oxide synthase, endothelial

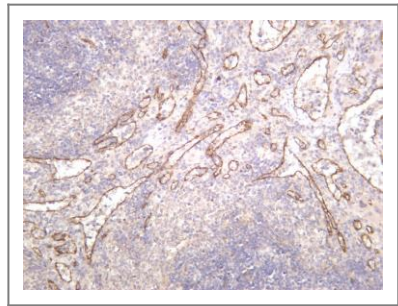
Organism	Gene ID	UniProt ID
Human	<a href="#">4846</a> ;	<a href="#">P29474</a> ;
Mouse	<a href="#">18127</a> ;	<a href="#">P70313</a> ;
Rat	<a href="#">24600</a> ;	<a href="#">Q62600</a> ;

**Cellular Localization** Membrane

**Tissue specificity** Platelets, placenta, liver and kidney.

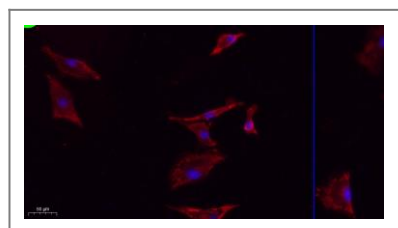
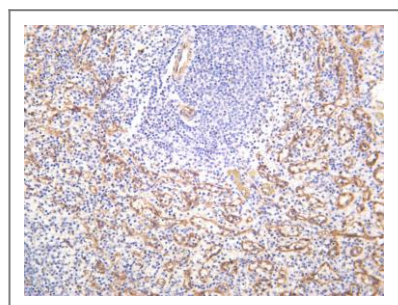
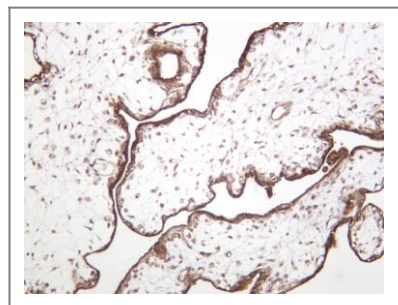
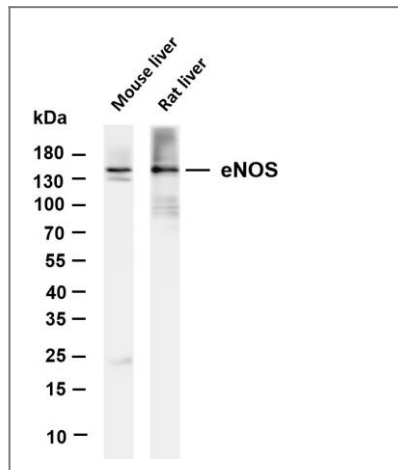
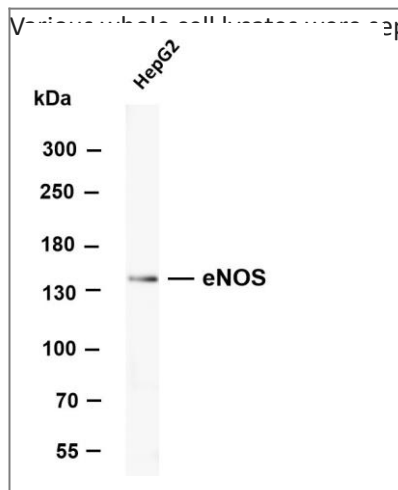
**Function** Catalytic activity:L-arginine + n NADPH + n H(+) + m O(2) = citrulline + nitric oxide + n NADP(+).,cofactor:Binds 1 FAD.,cofactor:Binds 1 FMN.,cofactor:Heme group.,cofactor:Tetrahydrobiopterin (BH4). May stabilize the dimeric form of the enzyme.,enzyme regulation:Stimulated by calcium/calmodulin. Inhibited by NOSIP and NOSTRIN.,Function: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.,online information:Nitric oxide synthase entry,polymorphism:Variation in NOS3 seem to be associated with susceptibility to coronary spasm.,similarity:Belongs to the NOS family.,similarity:Contains 1 FAD-binding FRtype domain.,similarity:Contains 1 flavodoxin-like domain.,subcellular location: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.,subunit:Homodimer. Interacts with NOSIP and NOSTRIN.,tissue specificity:Platelets, placenta, liver and kidney.,

# Validation Data



Rat spleen was stained with anti-eNOS (ANT0054R) rabbit antibody

Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-eNOS (ANT0054R)



antibody. The HRPconjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: HepG2 Predicted band size: 133kDa Observed band size: 133kDa

Mouse liver was stained with anti-eNOS (ANT0054R) rabbit antibody

Human placenta was stained with anti-eNOS (ANT0054R) rabbit antibody

Human spleen was stained with anti-eNOS (ANT0054R) rabbit antibody

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.

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Contact Antagene Inc Tel 1-866-964-2589 Email: [info@antageneinc.com](mailto:info@antageneinc.com)