

# eNOS (PT0454R) PT™ Rabbit mAb

CatalogNo: YM8291 **Recombinant** 

## Key Features

### Host Species

- Rabbit

### Reactivity

- Human, Mouse, Rat

### Applications

- WB, IHC, IF, IP, ELISA

### MW

- 133kD (Calculated)
- 133kD (Observed)

### Isotype

- IgG, Kappa

## Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)**Formulation** PBS, 50% glycerol, 0.05% Proclin 300, 0.05% BSA

## Recommended Dilution Ratios

**IHC 1:1000-1:4000****WB 1:2000-1:10000****IF 1:200-1:1000****ELISA 1:5000-1:20000****IP 1:50-1:200**

## Basic Information

**Clonality** Monoclonal**Clone Number** PT0454R

## Immunogen Information

**Specificity** Endogenous

## Target Information

**Gene name** NOS3

**Protein Name** Nitric oxide synthase, endothelial

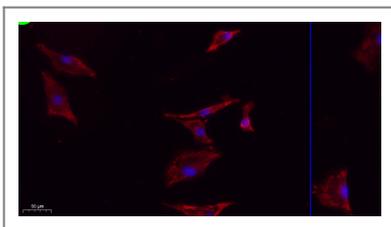
Organism	Gene ID	UniProt ID
Human	<a href="#">4846</a> ;	<a href="#">P29474</a> ;
Mouse	<a href="#">18127</a> ;	<a href="#">P70313</a> ;
Rat	<a href="#">24600</a> ;	<a href="#">Q62600</a> ;

**Cellular Localization** Membrane

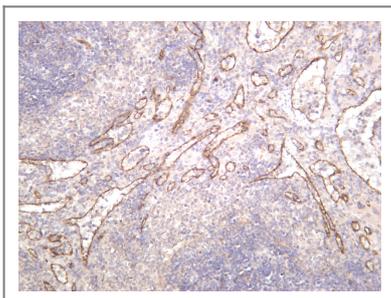
**Tissue specificity** Platelets, placenta, liver and kidney.

**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 FR-type 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.,

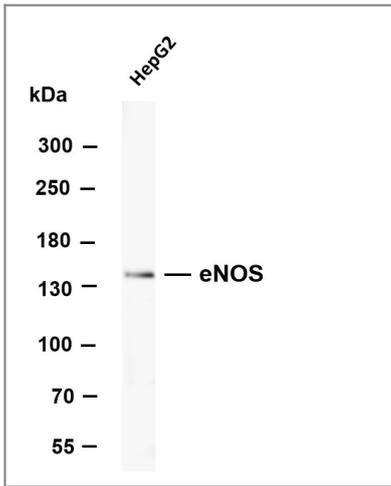
## Validation Data



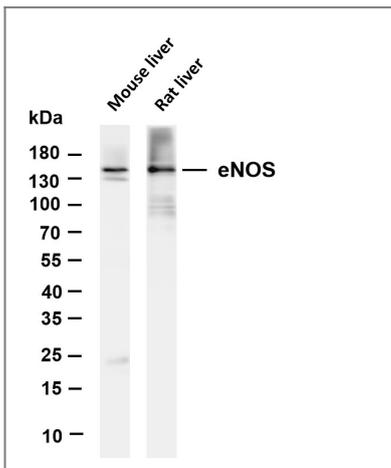
Immunofluorescence analysis of A549. 1, primary Antibody(red) was diluted at 1:200(4°C overnight). 2, Goat Anti Rabbit IgG (H&L) - Alexa Fluor 594 Secondary antibody was diluted at 1:1000(room temperature, 50min).3, DAPI(blue) 10min.



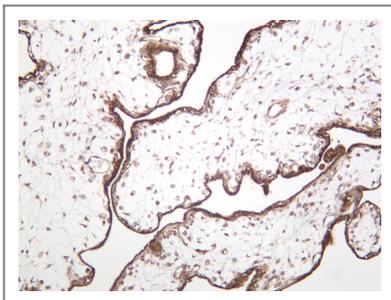
Rat spleen was stained with anti-eNOS rabbit antibody



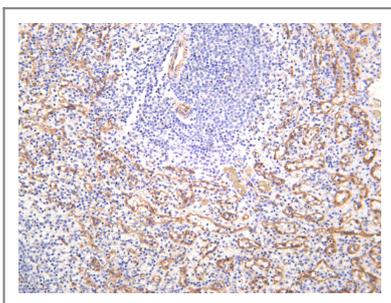
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-eNOS antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: HepG2 Predicted band size: 133kDa Observed band size: 133kDa



Mouse liver was stained with anti-eNOS rabbit antibody



Human placenta was stained with anti-eNOS rabbit antibody



Human spleen was stained with anti-eNOS rabbit antibody

## Contact information

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Please scan the QR code  
to access additional  
product information:  
**eNOS (PT0454R)**  
**PT™ Rabbit mAb**

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