

## iNOS (PT0859R) PT™ Rabbit mAb

CatalogNo: YM8628 **Recombinant** 

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- WB, IF, IP, ELISA

#### MW

- 131kD (Calculated)  
131kD (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

**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** PT0859R

### Immunogen Information

**Specificity** Endogenous

## Target Information

**Gene name** NOS2, INOS

**Protein Name** Nitric oxide synthase inducible

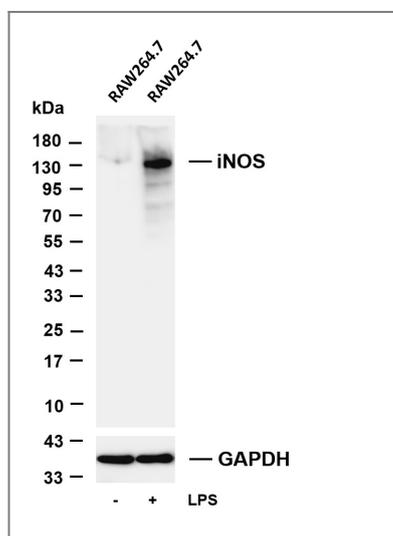
Organism	Gene ID	UniProt ID
Human	<a href="#">4843</a> ;	<a href="#">P35228</a> ;
Mouse	<a href="#">18126</a> ;	<a href="#">P29477</a> ;
Rat	<a href="#">24599</a> ;	<a href="#">Q06518</a> ;

**Cellular Localization** Cytoplasm, cytosol . Localizes as discrete foci scattered throughout the cytosol and in the presence of SPSB1 and SPSB4, exhibits a more diffuse cytosolic localization. .

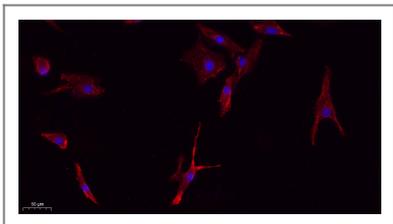
**Tissue specificity** Expressed in the liver, retina, bone cells and airway epithelial cells of the lung. Not expressed in the platelets. Expressed in chondrocytes (PubMed:7504305).

**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: Regulated by calcium/calmodulin. Aspirin inhibits expression and function of this enzyme and effects may be exerted at the level of translational/post-translational modification and directly on the catalytic activity.,Function: Produces nitric oxide (NO) which is a messenger molecule with diverse functions throughout the body. In macrophages, NO mediates tumoricidal and bactericidal actions.,induction: By endotoxins and cytokines.,online information: Nitric oxide synthase entry,similarity: Belongs to the NOS family.,similarity: Contains 1 FAD-binding FR-type domain.,similarity: Contains 1 flavodoxin-like domain.,subunit: Homodimer. Binds SLC9A3R1.,tissue specificity: Expressed in the liver, retina, bone cells and airway epithelial cells of the lung. Not expressed in the platelets.,

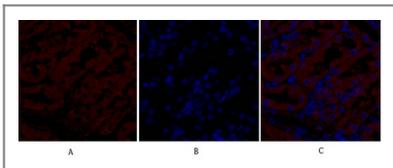
## Validation Data



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-iNOS antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: RAW264.7 Lane 2: RAW264.7 treated overnight with 1µg/ml LPS Predicted band size: 131kDa Observed band size: 131kDa



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.



Immunofluorescence analysis of rat-kidney tissue. 1,NOS2 Monoclonal Antibody(red) was diluted at 1:200(4°C,overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B

## Contact information

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**PT™ Rabbit mAb**

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