

eNOS Rabbit pAb

CatalogNo: YT3174

Orthogonal Validated 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC, IF, ELISA

MW

- 130-140kD (Observed)

Isotype

- IgG

Storage

Storage*

-15°C to -25°C/1 year (Do not lower than -25°C)

Formulation

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-2000

IF 1:50-300

IHC 1:50-300

ELISA 1:5000-20000

Basic Information

Clonality

Polyclonal

Immunogen Information

Immunogen

The antiserum was produced against synthesized peptide derived from human eNOS. AA range:1145-1194

Specificity

NOS3 Polyclonal Antibody detects endogenous levels of NOS3 protein.

Target Information

Gene name NOS3

Protein Name Nitric oxide synthase endothelial

Organism	Gene ID	UniProt ID
Human	4846;	P29474;
Mouse	18127;	P70313;
Rat	24600;	Q62600;

Cellular Localization Cell membrane. Membrane , caveola. Cytoplasm , cytoskeleton. Golgi apparatus. 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.

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

Contact information

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