

eNOS (Phospho Ser1179) Rabbit pAb

CatalogNo: YP1238 **Orthogonal Validated** 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- IHC, IF, WB

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

IHC 1:50-200

WB 1:500-2000

IF 1:50-200

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen Synthesized peptide derived from human eNOS (Phospho-Ser1179)

Specificity This antibody detects endogenous phospho levels of eNOS (Phospho-Ser1179) at Human:S1179, Mouse:S1178, Rat:S1178. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):SFsLQ

Target Information

Gene name NOS3

Protein Name eNOS (Phospho-Ser1179)

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

Cellular Localization

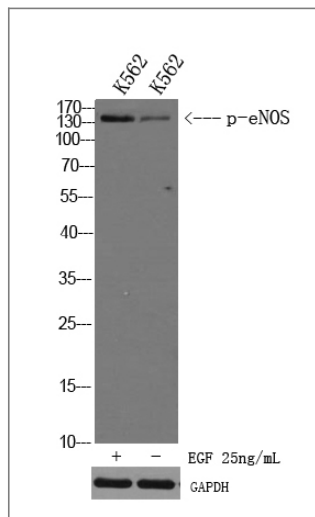
Cell membrane. Membrane , caveola. Cytoplasm , cytoskeleton. Golgi apparatus. Specifically associates with actin cytoskeleton in the G2 phase of the cell cycle; which is favored by interaction with NOSIP and results in a reduced enzymatic activity.

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



Western Blot analysis of K562 cells, cell treated or untreated by EGF 20ng/ml 30'. Primary Antibody was diluted at 1:1000. Secondary antibody (catalog#:RS23920) was diluted at 1:10000

Contact information

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eNOS (Phospho Ser1179) Rabbit pAb

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