



eNOS (Phospho-Ser1179) Monoclonal Antibody

Catalog No	BYmab-10347
Isotype	IgG
Reactivity	Human; Mouse; Rat
Applications	WB
Gene Name	NOS3
Protein Name	eNOS (Phospho-Ser1179)
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
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Nitric oxide synthase, endothelial (EC 1.14.13.39;Constitutive NOS;cNOS;EC-NOS;Endothelial NOS;eNOS;NOS type III;NOSIII)
Observed Band	130-140kD
Cell Pathway	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

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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

Background

Nitric oxide is a reactive free radical which acts as a biologic mediator in several processes, including neurotransmission and antimicrobial and antitumoral activities. Nitric oxide is synthesized from L-arginine by nitric oxide synthases. Variations in this gene are associated with susceptibility to coronary spasm. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2009],

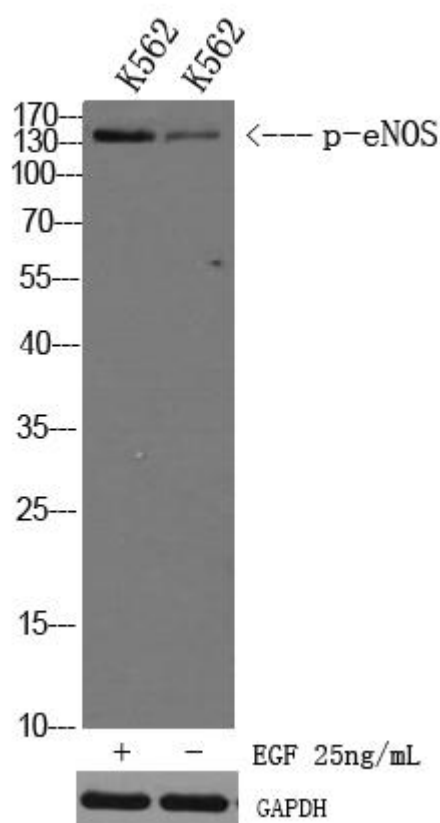
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using eNOS (Phospho-Ser1179) Monoclonal Antibody

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