

**eNOS Monoclonal Antibody(Mix)**

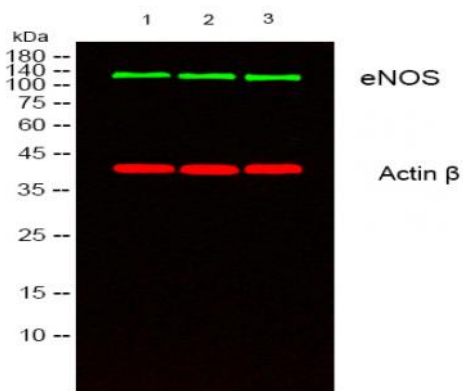
<b>Catalog No :</b>	YM3164
<b>Reactivity :</b>	Human;Mouse;Rat;Rabbit
<b>Applications :</b>	WB
<b>Target :</b>	NOS3
<b>Fields :</b>	>>Arginine biosynthesis;>>Arginine and proline metabolism;>>Metabolic pathways;>>Calcium signaling pathway;>>cGMP-PKG signaling pathway;>>HIF-1 signaling pathway;>>Sphingolipid signaling pathway;>>PI3K-Akt signaling pathway;>>VEGF signaling pathway;>>Apelin signaling pathway;>>Platelet activation;>>Estrogen signaling pathway;>>Oxytocin signaling pathway;>>Relaxin signaling pathway;>>Insulin resistance;>>AGE-RAGE signaling pathway in diabetic complications;>>Diabetic cardiomyopathy;>>Lipid and atherosclerosis;>>Fluid shear stress and atherosclerosis
<b>Gene Name :</b>	NOS3
<b>Protein Name :</b>	Nitric oxide synthase, endothelial
<b>Human Gene Id :</b>	4846
<b>Human Swiss Prot No :</b>	P29474
<b>Mouse Gene Id :</b>	18127
<b>Mouse Swiss Prot No :</b>	P70313
<b>Rat Gene Id :</b>	24600
<b>Rat Swiss Prot No :</b>	Q62600
<b>Immunogen :</b>	Recombinant Protein of eNOS
<b>Specificity :</b>	The antibody detects endogenous eNOS protein.  PBS, pH 7.4, containing 0.5%BSA, 0.02% sodium azide as Preservative and

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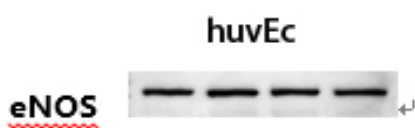
<b>Formulation :</b>	50% Glycerol.
<b>Source :</b>	Monoclonal, Mouse
<b>Dilution :</b>	WB 1:500-2000
<b>Purification :</b>	The antibody was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen.
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Observed Band :</b>	130-140kD
<b>Cell Pathway :</b>	Arginine and proline metabolism;Calcium;VEGF;
<b>Background :</b>	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],
<b>Function :</b>	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
<b>Subcellular Location :</b>	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.
<b>Expression :</b>	Platelets, placenta, liver and kidney.

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## Products Images



Western blot analysis of lysates from 1) Rat Heart Tissue, 2) huvec ,3) Jurkat cells, [Green] primary antibody was diluted at 1:1000, 4° over night, secondary antibody(cat:RS23910)was diluted at 1:10000, 37° 1hour. [Red] Actin  $\beta$  Polyclonal Antibody (cat:YT0099) antibody was diluted at 1:5000 as loading control, 4° over night,secondary antibody(cat:RS23720)was diluted at 1:10000, 37° 1hour.



The picture was kindly provided by our customer

**Wuhan Tongji Hospital**