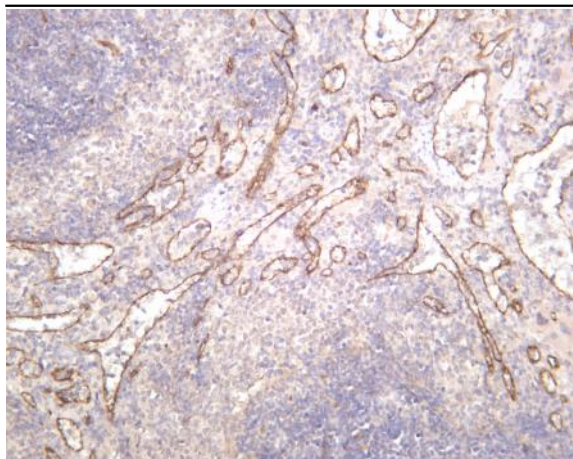


eNOS (PT0454R) PT® Rabbit mAb

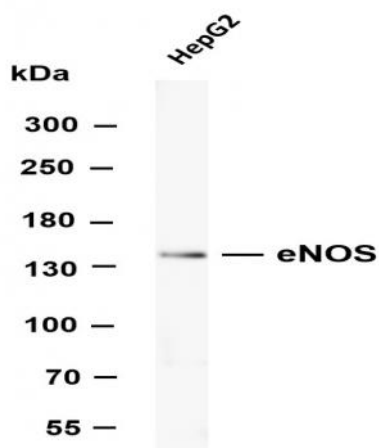
Catalog No :	YM8291
Reactivity :	Human; Mouse; Rat;
Applications :	WB;IHC;IF;IP;ELISA
Target :	NOS3
Fields :	>>Arginine biosynthesis;>>Arginine and proline metabolism;>>Metabolic pathways;>>Calcium signaling pathway;>>cGMP-PKG signaling pathway;>>HIF-1 signaling pathway;>>Sphingolipid signaling pathway;>>PI3K-Akt 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
Gene Name :	NOS3
Protein Name :	Nitric oxide synthase, endothelial
Human Gene Id :	4846
Human Swiss Prot No :	P29474
Mouse Gene Id :	18127
Mouse Swiss Prot No :	P70313
Rat Gene Id :	24600
Rat Swiss Prot No :	Q62600
Specificity :	endogenous
Formulation :	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA Monoclonal, rabbit, IgG, Kappa

Dilution:	IHC 1:1000-1:4000;WB 1:2000-1:10000;IF 1:200-1:1000;ELISA 1:5000-1:20000;IP 1:50-1:200;
Purification :	Protein A
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	133kD
Observed Band :	133kD
Cell Pathway :	Arginine and proline metabolism;Calcium;VEGF;
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],
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
Subcellular Location :	Membrane
Expression :	Platelets, placenta, liver and kidney.

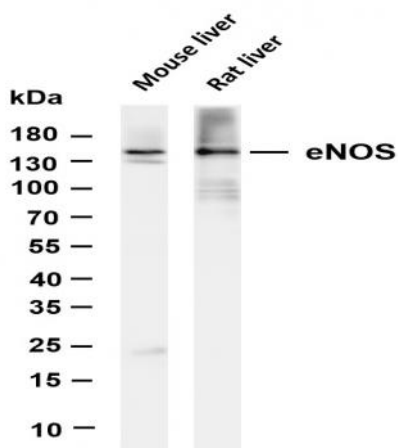
Products Images



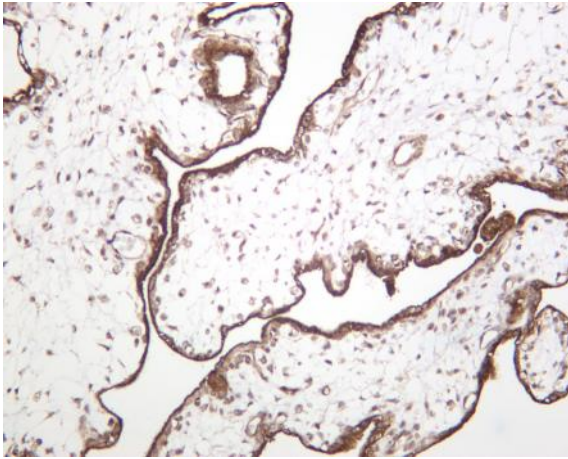
Rat spleen was stained with anti-eNOS (PT0454R) rabbit antibody



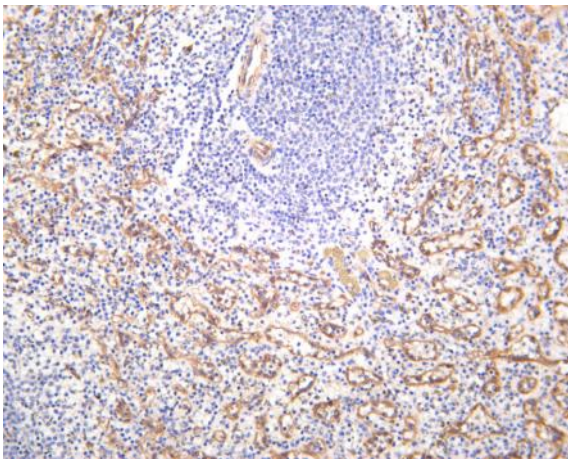
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-eNOS (PT0454R) antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: HepG2
Predicted band size: 133kDa Observed band size: 133kDa



Mouse liver was stained with anti-eNOS (PT0454R) rabbit antibody



Human placenta was stained with anti-eNOS (PT0454R) rabbit antibody



Human spleen was stained with anti-eNOS (PT0454R) rabbit antibody