Data Sheet (Cat.No.TMAB-00615)

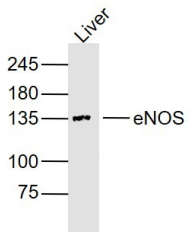
Anti-eNOS Antibody (6A162)

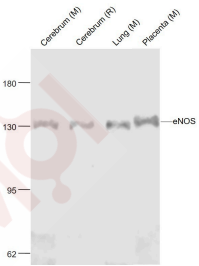
Product Details

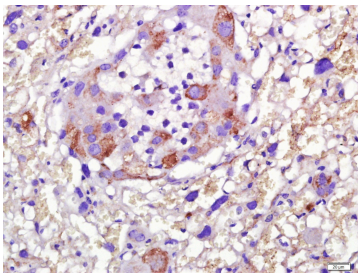
Ig Type:	IgG
Reactivity:	Mouse,Rat (predicted:Human)
Molecular Weight:	Theoretical: 133 kDa. Actual: 133 kDa.
Clone:	6A162
Purification:	Protein G purified

Applications

Verified Activity:	1. Sample: Liver (mouse) Lysate at 40 µg Primary: Anti-eNOS (TMAB-00615) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution Predicted band size: 133 kDa Observed band size: 135 kDa 2. Sample: Cerebrum (Mouse) Lysate at 40 µg Cerebrum (Rat) Lysate at 40 µg Lung (Mouse) Lysate at 40 µg Placenta (Mouse) Lysate at 40 µg Primary: Anti-eNOS (TMAB-00615) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution Predicted band size: 135 kDa Observed band size: 135 kDa 3. Paraformaldehyde-fixed, paraffin embedded (Mouse placenta); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (eNOS/NOS-3) Monoclonal Antibody, Unconjugated (TMAB-00615) at 1:400 overnight at 4°C, followed by a conjugated secondary for 20 min and DAB staining.







Application:	IF,IHC-Fr,IHC-P,WB
Recommended	WB: 1:500-1000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human eNos
Antigen Species:	Human
Gene ID:	4846
Uniprot ID:	P29474
Synonyms:	Endothelial nitric oxide synthase 3;cNOS;Nitric oxide synthase 3;nitric oxide synthase, endothelial;NOS 3;NOSIII;Nitric oxide synthase 3(endothelial cell);NOS-3;NOS III;Endothelial NOS;ecNOS;Constitutive NOS;NOS type III;Endothelial nitric oxidase synthase;Nitric oxide synthase endothelial;Nitric oxide synthase 3 endothelial cell;EC NOS;NOS3
Biology Area:	Response to hypoxia,Platelets,Nitric oxide associated,Oxidative Stress,Hypoxia,Oxidative stress, NOS

Research Background

Nitric oxide synthase NOS oxidizes a guanidine nitrogen of arginine releasing nitric oxide in the form of a free radical and citrulline. Nitric oxide thus generated acts as a messenger in diverse functions including vasodilation neurotransmission, anti tumor and anti pathogenic activities. NOS is classified under three types: neuronal NOS (nNOS) or brain NOS (bNOS); inducible NOS (iNOS) or macrophage NOS (mNOS); and endothelial NOS (eNOS).

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