bs-3447R **[Primary Antibody]**

phospho-eNOS (Ser1177) Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 18127 **SWISS:** P70313

Target: eNOS (Ser1177)

Immunogen: KLH conjugated Synthesised phosphopeptide derived from mouse eNOS around the phosphorylation site of Ser1177: TQ(p-S)FS.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

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).

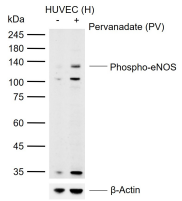
Applications: **WB** (1:500-1000)

Reactivity: Human (predicted: Mouse, Rat)

Predicted MW.: 133 kDa

Subcellular Location: Cell membrane ,Cytoplasm

VALIDATION IMAGES



Sample: Lane 1: Human HUVEC cell lysates Lane 2: Human HUVEC treated with 100 µM Pervanadate (PV) for 10 minutes Primary: Anti-Phospho-eNOS (Ser1177) (bs-3447R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 133 kDa Observed band size: 135 kDa

SELECTED CITATIONS

- **[IF=9.8]** Jian Liu. et al. Environmental dose of 16 priority-controlled PAHs induce endothelial dysfunction: An in vivo and in vitro study. SCI TOTAL ENVIRON. 2024 Apr;919:170711 WB ;Rat,Human. 38340817
- **[IF=8.101]** Sol Guerra-Ojeda. et al. Cerium dioxide nanoparticles modulate antioxidant defences and change vascular response in the human saphenous vein. FREE RADICAL BIO MED. 2022 Nov;193:694 WB ;Human. 36402438
- **[IF=5.1]** Min Luo. et al. Methyl protodioscin reduces c-Myc to ameliorate diabetes mellitus erectile dysfunction via downregulation of AKAP12. DIABETES RES CLIN PR. 2023 Nov;:111012 WB,IHC,IF ;Mouse. 37967586
- **[IF=4.7]** Ming Luo. et al. Fecal Microbiota Transplantation Alleviates Cirrhotic Portal Hypertension in Rats via Butyrate-Mediated HDAC3 Inhibition and PI3K/Akt/eNOS Signaling Regulation. EUR J PHARMACOL. 2025 May;:177781 WB,IF ;Rat. 40441587
- **[IF=5.195]** Fang Cao. et al. Ginkgo biloba L. extract prevents steroid-induced necrosis of the femoral head by rescuing

apoptosis and dysfunction in vascular endothelial cells via the PI3K/AKT/eNOS pathway. J ETHNOPHARMACOL. 2022 Jun;:115476 WB ;Mouse. 35724747