Product Datasheet

eNOS(Phospho-Ser1177) Antibody

Catalog No: #11156

Package Size: #11156-1 50ul #11156-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

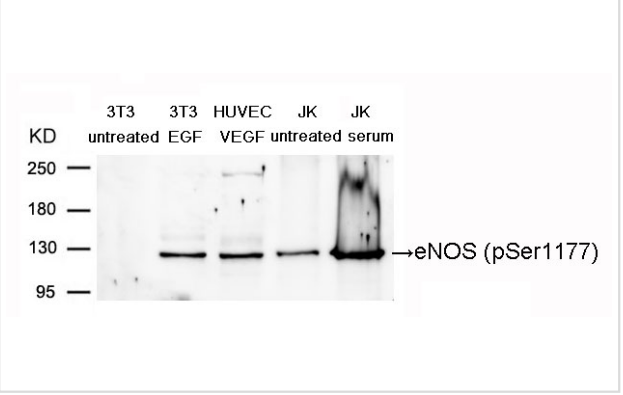
Product Name	eNOS(Phospho-Ser1177) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatogramphy using non-phosphopeptide.
Applications	WB
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of eNOS only when phosphorylated at serine 1177.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of serine 1177 (T-Q-S(p)-F-S) derived from Human eNOS.
Target Name	eNOS
Modification	Phospho
Other Names	Constitutive NOS; EC-NOS; ECNOS; NOS3; NOSIII
Accession No.	Swiss-Prot: P29474NCBI Protein: NP_000594.2
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.

Application Details

Predicted MW: 133kd

Western blotting: 1:500~1:1000

Images



Western blot analysis of extracts from 3T3 cells untreated and treated with EGF, HUVEC cells treated with VEGF, JK cells untreated and treated with serum using eNOS (Phospho-Ser1177) Antibody #11156.

Background

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.

Fulton, D. et al. (1999) Nature 399, 597-601.
Harris, M.B. et al. (2001) J. Biol. Chem. 276, 16587-16591.
Thomas, S.R. et al. (2002) J. Biol. Chem. 277, 6017-6024.

Published Papers

el at., Adenosine mono-phosphate-activated protein kinase-mammalian target of rapamycin signaling participates in the protective effect of chronic intermittent hypobaric hypoxia on vascular endothelium of metabolic syndrome rats. In Chin J Physiol on 2022 Mar-Apr by Fang Cui, Min Shi,et al..PMID:35488670, , (2022)

PMID:35488670

el at., Chaiqi decoction ameliorates vascular endothelial injury in metabolic syndrome by upregulating autophagy. In Am J Transl Res on 2020 Sep 15 by Xun Chen, Xiao-Ru Yan,et al..PMID:33042397, , (2020)

PMID:33042397

el at., Chronic intermittent hypobaric hypoxia protects vascular endothelium by ameliorating autophagy in metabolic syndrome rats. In Life Sci.On 2018 Jul 15 by Cui F, Guan Y et al..PMID:29733850, , (2018)

PMID:29733850

el at., Pro-atherosclerotic disturbed flow disrupts caveolin-1 expression, localization, and function via glycocalyx degradation.In J Transl Med. On 2018 Dec 18 by Harding IC, Mitra R et al..PMID: 30563532 , , (2018)

PMID:30563532

el at., Gardenamide A protects RGC-5 cells from H2O2-induced oxidative stress insults by activating PI3K/Akt/eNOS signaling pathway.In Int J Mol Sci on 2015 Sep 15 by Rikang Wang , Lizhi Peng et al..PMID:26389892, , (2015)

PMID:26389892

Note: This product is for in vitro research use only and is not intended for use in humans or animals.