

eNOS Antibody

Catalog No: #21170



Package Size: #21170-1 50ul #21170-2 100ul

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

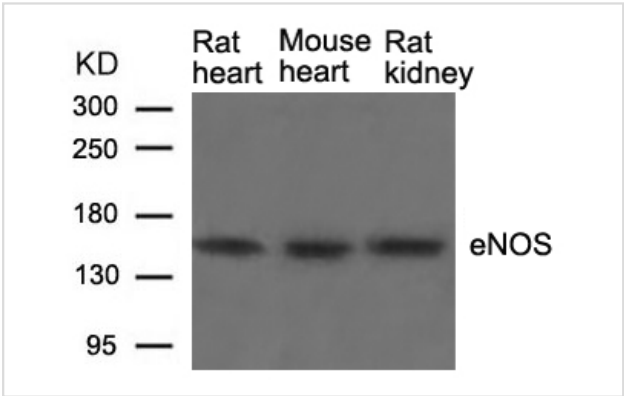
Description

Product Name	eNOS Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide.
Applications	WB IF
Species Reactivity	Human;Mouse;Rat
Specificity	The antibody detects endogenous level of total eNOS protein.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around aa.1175~1179 (T-Q-S-F-S) derived from Human eNOS.
Conjugates	Unconjugated
Target Name	eNOS
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.

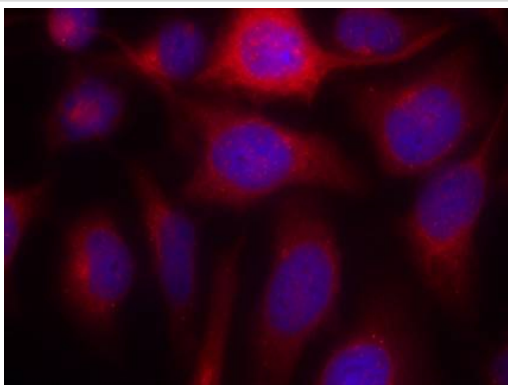
Application Details

Predicted MW: 140kd
Western blotting: 1:500~1:1000
Immunofluorescence: 1:100~1:200

Images



Western blot analysis of extracts from Rat heart, Mouse heart and Rat kidney tissue using eNOS(Ab-1177) Antibody #21170.



Immunofluorescence staining of methanol-fixed HeLa cells using eNOS(Ab-1177) Antibody #21170.

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

Jian Jiao, Hong Wang, Wei Lou et al., Regulation of ciliary beat frequency by the nitric oxide signaling pathway in mouse nasal and tracheal epithelial cells., Experimental Cell Research, 317(17):2548-2553(2011)

[PMID:21787770](#)

et al., Lipopolysaccharide Induces Subacute Cerebral Microhemorrhages with Involvement of Nitric Oxide Synthase in Rats. In J Stroke Cerebrovasc Dis. On 2018 Jul by Zeng J, Zh o H et al..PMID:29598904, , (2018)

[PMID:29598904](#)

et al., Post-translational modification s of eNOS augment nitric oxide availability and facilitates hypoxia adaptation in Ladakhi women. In Nitric Oxide. 2018 On Aug 1 by Pooja, Ghosh D et al..PMID:29894791, , (2018)

[PMID:29894791](#)

et al., Chronic exercise impairs nitric oxide pathway in rabbit carotid and femoral arteries. In J Physiol. On 2018 Sep by Marchio P, Guerra-Ojeda S et al..PMID:29968308, , (2018)

[PMID:29968308](#)

et al., Icaritin reduces high glucose?Induced endothelial progenitor cell dysfunction via Inhibiting the p38/CREB pathway and activating the Akt/eNOS/NO pathway. In Exp Ther Med on 2019 Dec by Chen S, Wang Z, et al..PMID:31772646, , (2019)

[PMID:31772646](#)

et al., Neuroprotective effects of troxerutin and cerebroprotein hydrolysate injection on the neurovascular unit in a rat model of Middle cerebral artery occlusion. In Int J Neurosci on 2020 Mar 31: by Zh o H, Wang R, et al..PMID: 32125198, , (2020)

[PMID:32125198](#)

et al., Troxerutin cerebroprotein hydrolysate injection ameliorates neurovascular injury induced by traumatic brain injury via endothelial nitric oxide synthase pathway regulation . In Int J Neurosci. On 2018 Dec by Zh o H, Liu Y et al..PMID:29883225 , , (2018)

[PMID:29883225](#)

et al., Regulation of Ciliary Beat Frequency by the Nitric Oxide Signaling Pathway in Mouse Nasal and Tracheal Epithelial Cells. In Exp Cell Res on 2011 Oct 15 by Jian Jiao, Hong Wang, et al..PMID:21787770, , (2011)

[PMID:21787770](#)

el at., Regulation of Tracheal Ciliary Beat Frequency by Nitric Oxide Synthase Substrate L-arginine.In ORL J Otorhinolaryngol Relat Spec on 2010 by Jian Jiao, Demin Han,et al..PMID:20110742 , , (2010)

[PMID:20110742](#)

el at., Study of the Protective Mechanisms of Compound Danshen Tablet (Fufang Danshen Pian) Against Myocardial Ischemia/Reperfusion Injury via the Akt-eNOS Signaling Pathway in Rats.In J Ethnopharmacol on 2014 Oct 28 by Qin Ren-an, Lin Juan et al..PMID:25178948, , (2014)

[PMID:25178948](#)

el at., Genipin derivatives protect RGC-5 from sodium nitroprusside-induced nitrosative stress. In Int J Mol Sci on 2016 Jan 19 by Rikang Wang, Jiaqiang Zhao,et al..PMID:26797604

, , (2016)

[PMID:26797604](#)

el at., Estrogen receptor (ESR1 and ESR2)-mediated activation of eNOS-NO-cGMP pathway facilitates high altitude acclimatization. In Nitric Oxide on 2020 Sep 1 by Pooja, Manish Sharma, et al..PMID:32544536, , (2020)

[PMID:32544536](#)

el at., Association Between 17 β -Estradiol Receptors and Nitric Oxide Signaling Augments High-Altitude Adaptation of Ladakhi Highlanders. In High Alt Med Biol on 2021 Jun by

Pooja, Vandana Sharma, et al..PMID:33602001, , (2021)

[PMID:33602001](#)

el at., Neuroprotective effects of troxerutin and cerebroprotein hydrolysate injection on the neurovascular unit in a rat model of Middle cerebral artery occlusion. In Int J Neurosci on

2021 Mar by HZ ε yi Zhi ? Ru Wang,et al..PMID:32125198, , (2021)

[PMID:32125198](#)

el at., Deleterious effects of levamisole, a cocaine adulterant, in rabbit aorta. In Vascul Pharmacol on 2022 Jun by Sol Guerra-Ojeda, Patricia Marchio,et al..PMID:35358704, , (2022)

[PMID:35358704](#)

el at., Levamisole Impairs Vascular Function by Blocking α -Adrenergic Receptors and Reducing NO Bioavailability in Rabbit Renal Artery. In Cardiovasc Toxicol on 2024 Aug by Sol Guerra-Ojeda, Patricia Marchio,et al..PMID:38877381, , (2024)

[PMID:38877381](#)

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