# ARG51154
# anti-eNOS antibody

Package: 100 µl, 50 µl
Store at: -20°C

## Summary

| | |
|---|---|
| Product Description | Rabbit Polyclonal antibody recognizes eNOS |
| Tested Reactivity | Hu, Ms, Rat |
| Tested Application | ICC/IF, WB |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | IgG |
| Target Name | eNOS |
| Species | Human |
| Immunogen | Peptide sequence around aa.1175~1179 (T-Q-S-F-S) derived from Human eNOS. |
| Conjugation | Un-conjugated |
| Alternate Names | Constitutive NOS; NOS type III; Nitric oxide synthase, endothelial; Endothelial NOS; eNOS; EC-NOS; NOSIII; cNOS; EC 1.14.13.39; ECNOS |

## Application Instructions

Application table

| Application | Dilution |
|---|---|
| ICC/IF | 1:100 - 1:200 |
| WB | 1:500 - 1:1000 |

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

## Properties

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|---|---|
| Form | Liquid |
| Purification | Antibodies were produced by immunizing rabbits with KLH-conjugated synthetic peptide. Antibodies were purified by affinity-chromatography using epitope-specific peptide. |
| Buffer | PBS (without Mg2+ and Ca2+, pH 7.4), 150mM NaCl, 0.02% Sodium azide and 50% Glycerol. |
| Preservative | 0.02% Sodium azide |
| Stabilizer | 50% Glycerol |
| Concentration | 1 mg/ml |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |
| Note | For laboratory research only, not for drug, diagnostic or other use. |

## Bioinformation

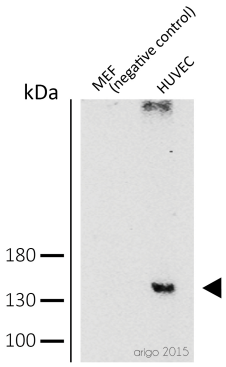
| | |
|---|---|
| Gene Symbol | NOS3 |
| Gene Full Name | nitric oxide synthase 3 (endothelial cell) |
| Background | Produces nitric oxide (NO) which is implicated in vascular smooth muscle relaxation through a cGMP-mediated signal transduction pathway. NO mediates vascular endothelial growth factor (VEGF)-induced angiogenesis in coronary vessels and promotes blood clotting through the activation of platelets. |
| 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. Isoform eNOS13C: Lacks eNOS activity, dominant-negative form that may down-regulate eNOS activity by forming heterodimers with isoform 1. [UniProt] |
| Research Area | Cancer antibody; Cell Biology and Cellular Response antibody; Metabolism antibody; Neuroscience antibody |
| Calculated Mw | 133 kDa |
| PTM | Phosphorylation by AMPK at Ser-1177 in the presence of Ca(2+)-calmodulin (CaM) activates activity. In absence of Ca(2+)-calmodulin, AMPK also phosphorylates Thr-495, resulting in inhibition of activity (By similarity). Phosphorylation of Ser-114 by CDK5 reduces activity. |

## Images

ARG51154 anti-eNOS antibody WB image

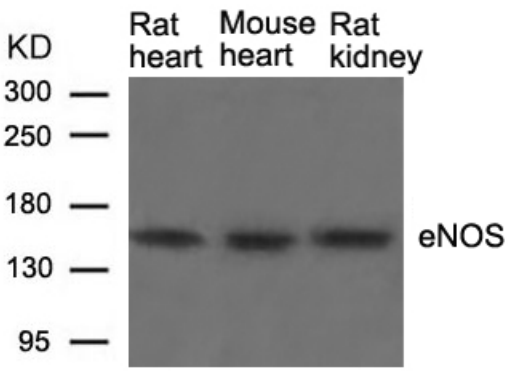
Western blot: HUVECs stained with ARG51154 anti-eNOS antibody.

From Qiang Wu et al. Pre-Print (2024), doi: 10.26599/FSHW.2024.9250032, Fig. 6. J.



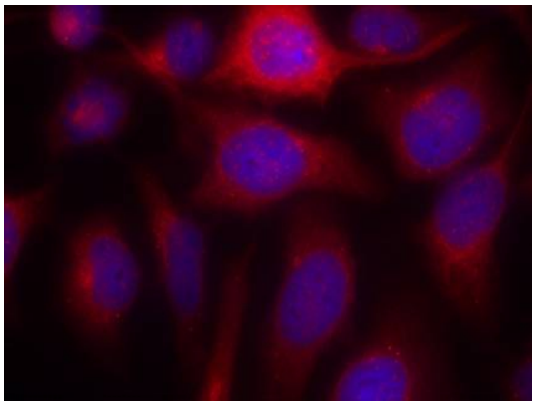

ARG51154 anti-eNOS antibody WB image

Western blot: 30 µg of MEF (negative control) and HUVEC cell line lysates stained with ARG51154 anti-eNOS antibody at 1:500 dilution.




ARG51154 anti-eNOS antibody WB image

Western Blot: extracts from Rat heart, Mouse heart and Rat kidney tissue stained with anti-eNOS antibody ARG51154.



ARG51154 anti-eNOS antibody ICC/IF image

Immunofluorescence: methanol-fixed HeLa cells stained with anti-eNOS antibody ARG51154.