


Product datasheet

Anti-eNOS (phospho S632) antibody [M232] ab76199

[15 References](#) [1 Image](#)

Overview

Product name	Anti-eNOS (phospho S632) antibody [M232]
Description	Mouse monoclonal [M232] to eNOS (phospho S632)
Host species	Mouse
Specificity	ab76199 is not expected to react with other NOS family members due to low homology.
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Human Predicted to work with: Rat 
Immunogen	Synthetic peptide corresponding to Mouse eNOS (phospho S632).
Positive control	Human umbilical vein endothelial cells.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 50% Glycerol, PBS
Purity	Protein A purified
Clonality	Monoclonal
Clone number	M232
Isotype	IgG1

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab76199 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500. Detects a band of approximately 140, 120 kDa (predicted molecular weight: 133 kDa).

Target

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.

Tissue specificity

Platelets, placenta, liver and kidney.

Involvement in disease

Variation in NOS3 seem to be associated with susceptibility to coronary spasm.

Sequence similarities

Belongs to the NOS family.

Contains 1 FAD-binding FR-type domain.

Contains 1 flavodoxin-like domain.

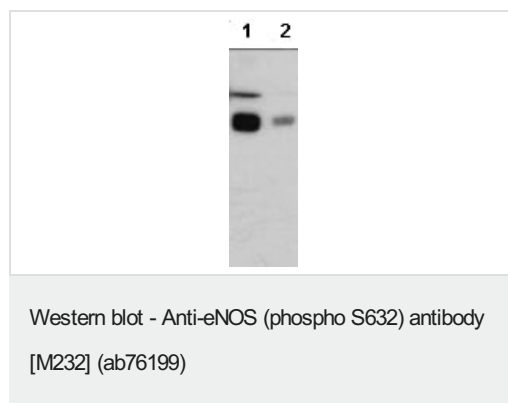
Post-translational modifications

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.

Cellular localization

Cell membrane. Membrane, caveola. Cytoplasm, cytoskeleton. Golgi apparatus. Specifically associates with actin cytoskeleton in the G2 phase of the cell cycle and which is favored by interaction with NOSIP and results in a reduced enzymatic activity.

Images



All lanes : Anti-eNOS (phospho S632) antibody [M232] (ab76199) at 1/500 dilution

Lane 1 : human umbilical vein endothelial cells, untreated

Lane 2 : human umbilical vein endothelial cells, treated with lambda phosphatase

Predicted band size: 133 kDa

Observed band size: 120,140 kDa

The 120 kDa band may be a truncated form of eNOS.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- Response to your inquiry within 24 hours

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- We investigate all quality concerns to ensure our products perform to the highest standards

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