

Anti-eNOS antibody [M221] ab76198

★★★★★ [14 Abreviews](#) [143 References](#) [5 图像](#)

概述

产品名称	Anti-eNOS抗体[M221]
描述	小鼠单克隆抗体[M221] to eNOS
宿主	Mouse
特异性	<p>ab76198 is not predicted to react with other NOS family members due to low homology.</p> <p>This antibody detects eNOS in mouse and but at a lower intensity than in human. If you are working in mouse, we would recommend using no more than 1% milk as the blocking agent for optimal signal strength.</p>
经测试应用	适用于: IHC-P, ICC/IF, WB, Flow Cyt (Intra)
种属反应性	与反应: Mouse, Human
免疫原	Recombinant fragment corresponding to Mouse eNOS aa 1024-1202 (C terminal). Database link: P70313
阳性对照	Human umbilical vein endothelial cells untreated and treated with lambda phosphatase. Mouse placenta lysate. Huvec lysate. IHC-P: FFPE human normal placenta tissue sections.
常规说明	<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>

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
存储溶液	Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 50% Glycerol, PBS
纯度	Protein A purified
克隆	单克隆
克隆编号	M221

应用

The Abpromise guarantee

Abpromise™承诺保证使用ab76198于以下的经测试应用

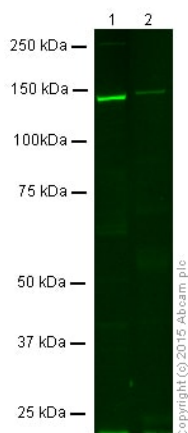
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
IHC-P		1/1000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ICC/IF	★★★★★ (1)	Use at an assay dependent concentration.
WB	★★★★★ (11)	1/500 - 1/1000. Predicted molecular weight: 133 kDa.
Flow Cyt (Intra)		Use 2µg for 10 ⁶ cells. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

靶标

功能	<p>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.</p> <p>Isoform eNOS13C: Lacks eNOS activity, dominant-negative form that may down-regulate eNOS activity by forming heterodimers with isoform 1.</p>
组织特异性	Platelets, placenta, liver and kidney.
疾病相关	Variation in NOS3 seem to be associated with susceptibility to coronary spasm.
序列相似性	<p>Belongs to the NOS family.</p> <p>Contains 1 FAD-binding FR-type domain.</p> <p>Contains 1 flavodoxin-like domain.</p>
翻译后修饰	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.
细胞定位	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.

图片



Western blot - Anti-eNOS antibody [M221]
(ab76198)

All lanes : Anti-eNOS antibody [M221] (ab76198) at 1/500 dilution

Lane 1 : Huvec cell lysates

Lane 2 : Mouse placenta lysates

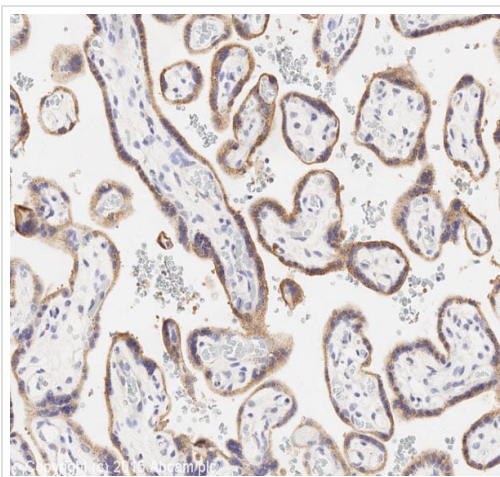
Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat anti Mouse IR680 at 1/10000 dilution

Predicted band size: 133 kDa

This blot was produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using Licor blocking buffer before being incubated with ab76198 overnight at 4°C. Antibody binding was detected using Goat anti Mouse IR680 at a 1:10,000 dilution for 1 hr at room temperature and then imaged using the Licor Odyssey CLx.

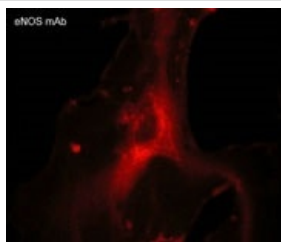


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-eNOS antibody [M221]
(ab76198)

IHC image of eNOS staining in human normal placenta*, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab76198, 1/1000 dilution, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

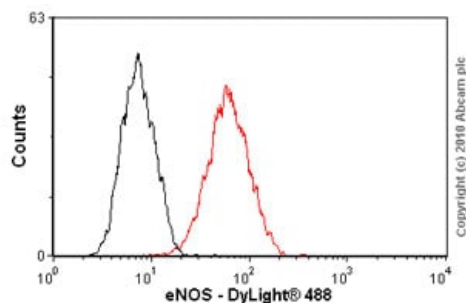
For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

*Tissue obtained from the Human Research Tissue Bank, supported by the NIHR Cambridge Biomedical Research Centre



Immunocytochemistry/ Immunofluorescence - Anti-eNOS antibody [M221] (ab76198)

ab76198 staining eNOS in human umbilical vein endothelial cells. Cells with fixed with paraformaldehyde.



Flow Cytometry (Intracellular) - Anti-eNOS antibody [M221] (ab76198)

Overlay histogram showing HEK293 cells stained with ab76198 (red line). The cells were fixed with methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab76198, 2µg/1x10⁶ cells) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) ([ab96879](#)) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] ([ab91353](#), 2µg/1x10⁶ cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a slightly decreased signal in HEK293 cells fixed with 4% paraformaldehyde (10 min)/permeabilized in 0.1% PBS-Tween used under the same conditions.



Western blot - Anti-eNOS antibody [M221] (ab76198)

All lanes : Anti-eNOS antibody [M221] (ab76198) at 1/1000 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: 140 kDa

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