

Product datasheet

Anti-eNOS antibody [6H2] ab91205

★★★★☆ 1 Abreviews 1 References 3 Images

Overview

Product name	Anti-eNOS antibody [6H2]
Description	Mouse monoclonal [6H2] to eNOS
Host species	Mouse
Tested applications	Suitable for: WB, ELISA, IHC-P, IHC-Fr, Flow Cyt
Species reactivity	Reacts with: Human
Immunogen	Purified recombinant fragment of Human eNOS expressed in <i>E. coli</i> .
Positive control	WB: HuVEC Human lymph node, colon cancer, stomach cancer, and ovary cancer.
General notes	This product was changed from ascites to supernatant. Lot no's high than GR129588-16 are from Tissue Culture Supernatant

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservative: 0.05% Sodium azide Constituent: PBS
Purity	Protein G purified
Purification notes	Purified from tissue culture supernatant.
Clonality	Monoclonal
Clone number	6H2
Isotype	IgG1

Applications

Our [Abpromise guarantee](#) covers the use of **ab91205** in the following tested applications.

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

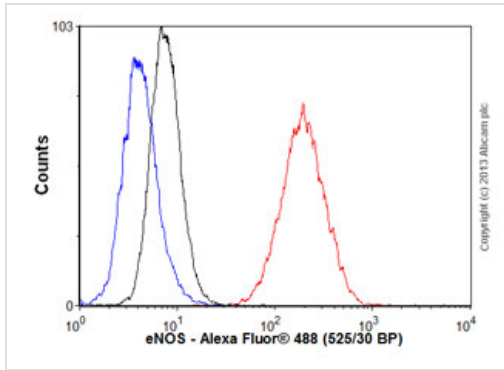
Application	Abreviews	Notes
WB		1/500 - 1/2000. Predicted molecular weight: 133 kDa.

Application	Abreviews	Notes
ELISA		1/10000.
IHC-P	★★★★☆	1/200 - 1/1000.
IHC-Fr		1/200 - 1/1000.
Flow Cyt		1/50 - 1/100. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

Target

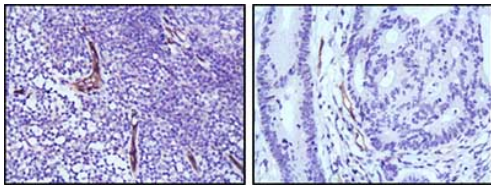
Function	<p>Produces nitric oxide (NO) which is implicated in vascular smooth muscle relaxation through a cGMP-mediated signal transduction pathway. NO mediates vascular endothelial growth factor (VEGF)-induced angiogenesis in coronary vessels and promotes blood clotting through the activation of platelets.</p> <p>Isoform eNOS13C: Lacks eNOS activity, dominant-negative form that may down-regulate eNOS activity by forming heterodimers with isoform 1.</p>
Tissue specificity	Platelets, placenta, liver and kidney.
Involvement in disease	Variation in NOS3 seem to be associated with susceptibility to coronary spasm.
Sequence similarities	<p>Belongs to the NOS family.</p> <p>Contains 1 FAD-binding FR-type domain.</p> <p>Contains 1 flavodoxin-like domain.</p>
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



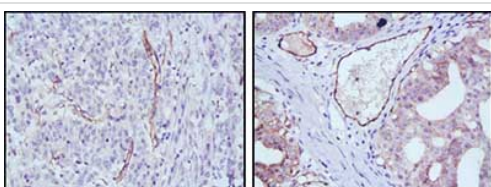
Flow Cytometry - Anti-eNOS antibody [6H2]
(ab91205)

Overlay histogram showing HEK293 cells stained with ab91205 (red line). The cells were fixed with 80% 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 (ab91205, 1/100 dilution) for 30 min at 22°C. The secondary antibody used was Alexa Fluor® 488 goat anti-mouse IgG (H&L) (ab150113) at 1/2000 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] (ab91353, 1µg/1x10⁶ cells) used under the same conditions. Unlabelled sample (blue line) was also used as a control. Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter. This antibody gave a positive signal in HEK293 cells fixed with 4% paraformaldehyde (10 min) permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-eNOS antibody [6H2]
(ab91205)

ab91205, at a 1/200 dilution, staining eNOS in paraffin embedded Human lymph node (left) and colon cancer (right) tissues by Immunohistochemistry. Detection was by DAB staining.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-eNOS antibody [6H2]
(ab91205)

ab91205, at a 1/200 dilution, staining eNOS in paraffin embedded Human stomach cancer (left) and ovary cancer (right) tissues by Immunohistochemistry. Detection was by DAB staining.

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