

# Anti-eNOS (phospho S1177) antibody [EPR20991] ab215717

リコンビナント **RabMAb**

**19 References**    **画像数 6**

### 製品の概要

製品名	Anti-eNOS (phospho S1177) antibody [EPR20991]
製品の詳細	Rabbit monoclonal [EPR20991] to eNOS (phospho S1177)
由来種	Rabbit
アプリケーション	<b>適用あり:</b> IP, WB, Dot blot
種交差性	<b>交差種:</b> Mouse, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: HUVEC (+/- VEGF or pervanadate) whole cell lysates; bEND.3 whole cell lysate. IP: HUVEC treated with VEGF whole cell lysate. Dot blot: eNOS (phospho S1177) peptide.
特記事項	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

### 製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
バッファー	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA</p>
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR20991
アイソタイプ	IgG

## アプリケーション

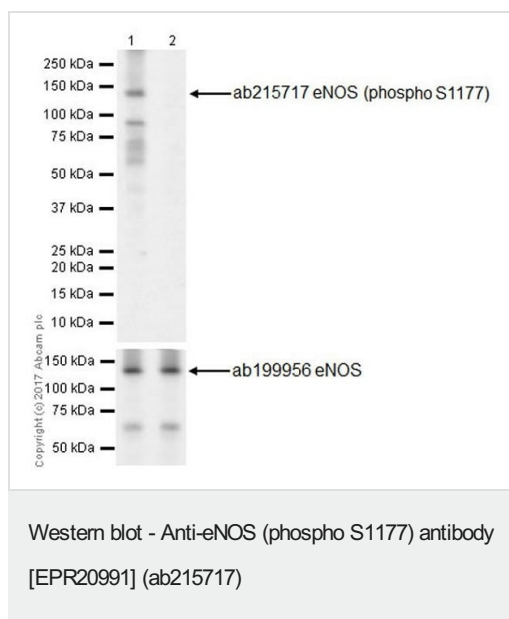
The Abpromise guarantee      Abpromise保証は、 次のテスト済みアプリケーションにおけるab215717の使用に適用されます  
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご確認ください。

アプリケーション	Abreviews	特記事項
IP		1/30.
WB		1/1000. Detects a band of approximately 140 kDa (predicted molecular weight: 133 kDa).
Dot blot		1/1000.

## ターゲット情報

機能	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.
組織特異性	Platelets, placenta, liver and kidney.
関連疾患	Variation in NOS3 seem to be associated with susceptibility to coronary spasm.
配列類似性	Belongs to the NOS family. Contains 1 FAD-binding FR-type domain. Contains 1 flavodoxin-like domain.
翻訳後修飾	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.
細胞内局在	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.

## 画像



**All lanes :** Anti-eNOS (phospho S1177) antibody [EPR20991] (ab215717) at 1/1000 dilution

**Lane 1 :** bEND.3 (mouse brain endothelioma cell line) whole cell lysate

**Lane 2 :** bEND.3 (mouse brain endothelioma cell line) treated with alkaline phosphatase for 1 hour, whole cell lysate

Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

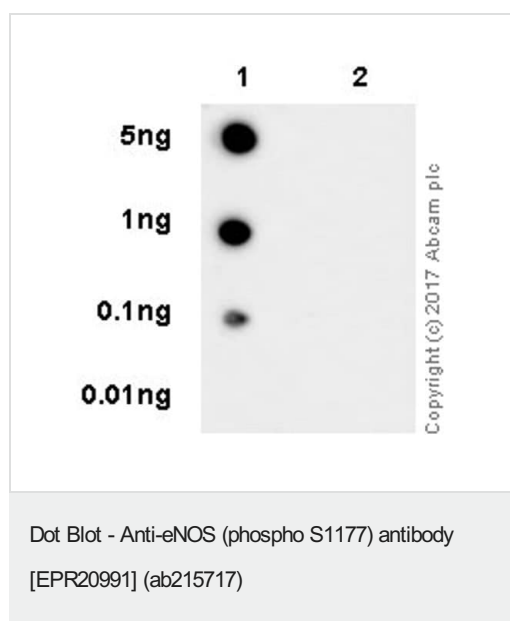
Developed using the ECL technique.

**Predicted band size:** 133 kDa

**Observed band size:** 140 kDa

**Exposure time:** 2 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.



Dot blot analysis of eNOS (phospho S1177) labeled with ab215717 at 1/1000 dilution.

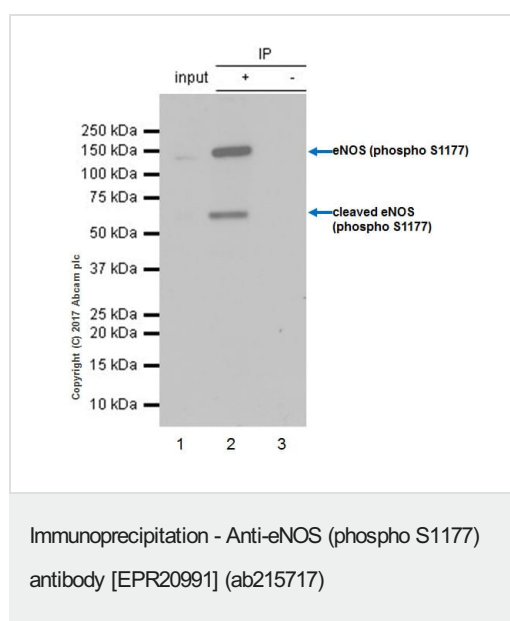
**Lane 1:** eNOS (phospho S1177) peptide.

**Lane 2:** eNOS non-phospho peptide.

Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution was used as secondary antibody.

**Exposure time:** 1 minute.

Blocking/Dilution buffer: 5% NFDm/TBST.



eNOS (phospho S1177) was immunoprecipitated from 0.35 mg of HUVEC (human umbilical vein endothelial cell line) treated with 10 ng/ml VEGF for 5 min, whole cell lysate with ab215717 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab215717 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)), was used for detection at 1/10,000 dilution.

**Lane 1:** HUVEC treated with VEGF whole cell lysate 10 µg (Input).

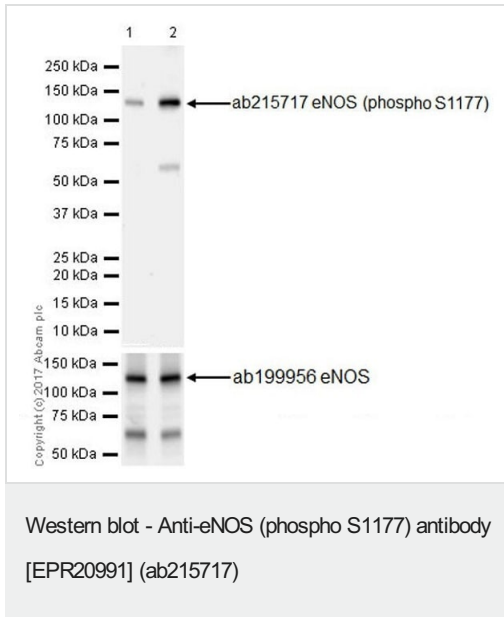
**Lane 2:** ab215717 IP in HUVEC treated with VEGF whole cell lysate.

**Lane 3:** Rabbit monoclonal IgG ([ab172730](#)) instead of ab215717 in HUVEC treated with VEGF whole cell lysate.

**Exposure time:** 30 seconds.

Blocking and dilution buffer and concentration: 5% NFDm/TBST.

The 60 kDa band may be a cleaved form of eNOS (PMID: 16195740).



**All lanes :** Anti-eNOS (phospho S1177) antibody [EPR20991] (ab215717) at 1/1000 dilution

**Lane 1 :** HUVEC (human umbilical vein endothelial cell line) whole cell lysate

**Lane 2 :** HUVEC (human umbilical vein endothelial cell line) treated with 100 uM pervanadate for 10 min, whole cell lysate

Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

Developed using the ECL technique.

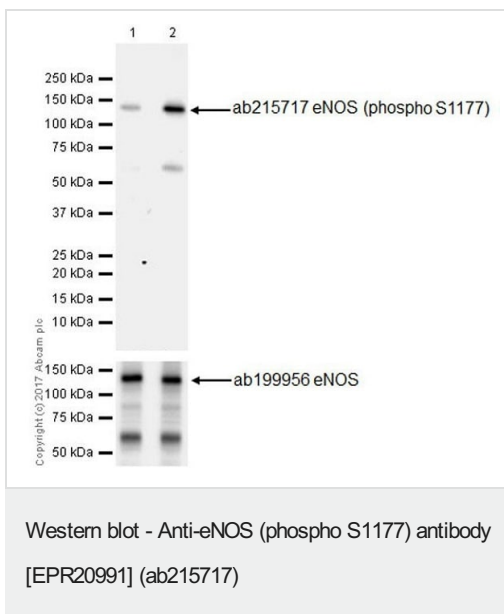
**Predicted band size:** 133 kDa

**Observed band size:** 140 kDa

**Exposure time:** 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.

The 60 kDa band may be a cleaved form of eNOS (PMID: 16195740).



**All lanes :** Anti-eNOS (phospho S1177) antibody [EPR20991] (ab215717) at 1/1000 dilution

**Lane 1 :** Untreated HUVEC (human umbilical vein endothelial cell line) whole cell lysate

**Lane 2 :** HUVEC (human umbilical vein endothelial cell line) treated with 10 ng/ml VEGF for 5 min, whole cell lysate

Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

Developed using the ECL technique.

**Predicted band size:** 133 kDa

**Observed band size:** 140 kDa

**Exposure time:** 3 minutes

Blocking/Dilution buffer: 5% NFDm/TBST.

The 60 kDa band may be a cleaved form of eNOS (PMID: 16195740).

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- Research with confidence**  
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- Long-term and scalable supply**  
Recombinant technology
- Success from the first experiment**  
Confirmed specificity
- Ethical standards compliant**  
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Anti-eNOS (phospho S1177) antibody [EPR20991] (ab215717)

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