

### Anti-SOD2/MnSOD (acetyl K68) antibody [EPVANR2] ab137037

**重组** RabMAb

★★★★★ **4 Abreviews** **81 References** **11 图像**

#### 概述

产品名称	Anti-SOD2/MnSOD (acetyl K68)抗体[EPVANR2]
描述	兔单克隆抗体[EPVANR2] to SOD2/MnSOD (acetyl K68)
宿主	Rabbit
特异性	This antibody only detects SOD2/MnSOD when acetylated at Lysine 68. According to BLAST analysis, the antibody might cross-react with Fer (Uniprot P70451) isoform 3 in mouse samples. No experiment has been done to confirm this possibility.
经测试应用	<b>适用于:</b> IHC-P, WB, Dot blot
种属反应性	<b>与反应:</b> Mouse, Rat, Human
免疫原	Synthetic peptide within Human SOD2/MnSOD (acetyl K68). The exact sequence is proprietary. Database link: <b>P04179</b> (Peptide available as <b>ab176149</b> )
阳性对照	WB: Mouse heart lysate. Rat kidney tissue lysate. SOD2 transfected HEK-293T lysate. IHC-P: Human cervical carcinoma. Human carcinoma kidney tissue. Rat liver tissue. Mouse kidney tissue. Human muscle tissue.
常规说明	<p>This antibody was developed as part of a collaboration with the lab of David Guis at Vanderbilt University.</p> <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 <b>see here</b>.</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 <b>RabMAb<sup>®</sup> patents</b>.</p>

#### 性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.

存储溶液	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 0.05% BSA, 40% Glycerol, 59% PBS
纯度	Protein A purified
克隆	单克隆
克隆编号	EPVANR2
同种型	IgG

应用

The Abpromise guarantee      **Abpromise™**承诺保证使用ab137037于以下的经测试应用

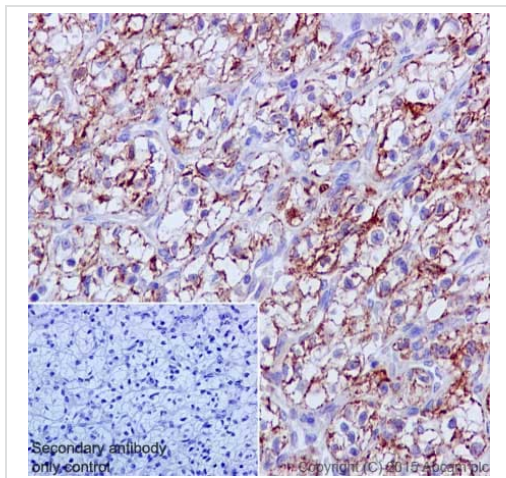
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. See <b><u>IHC antigen retrieval protocols</u></b> .
WB	★★★★★ (4)	1/1000 - 1/10000. Predicted molecular weight: 24 kDa.
Dot blot		1/1000.

靶标

功能	Destroys superoxide anion radicals which are normally produced within the cells and which are toxic to biological systems.
疾病相关	Genetic variation in SOD2 is associated with susceptibility to microvascular complications of diabetes type 6 (MVCD6) [MIM:612634]. These are pathological conditions that develop in numerous tissues and organs as a consequence of diabetes mellitus. They include diabetic retinopathy, diabetic nephropathy leading to end-stage renal disease, and diabetic neuropathy. Diabetic retinopathy remains the major cause of new-onset blindness among diabetic adults. It is characterized by vascular permeability and increased tissue ischemia and angiogenesis.
序列相似性	Belongs to the iron/manganese superoxide dismutase family.
翻译后修饰	Nitrated under oxidative stress. Nitration coupled with oxidation inhibits the catalytic activity.
细胞定位	Mitochondrion matrix.

图片

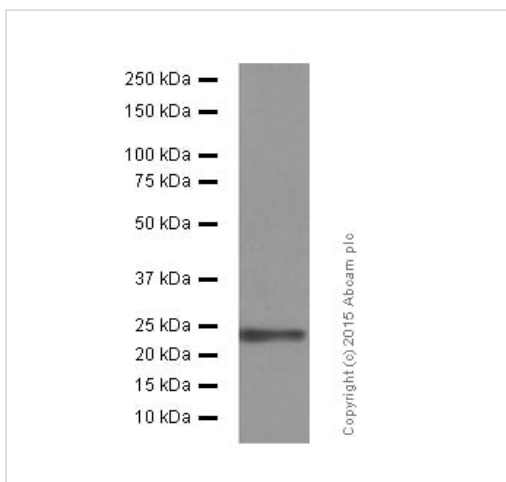


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SOD2/MnSOD (acetyl K68) antibody [EPVANR2] (ab137037)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human clear cell carcinoma kidney tissue labelling SOD2 (acetyl K68) with purified ab137037 at 1/150. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. **ab97051**, a goat anti-rabbit IgG H&L (HRP) was used as the secondary antibody (1/500).

Negative control using PBS instead of primary antibody.

Counterstained with hematoxylin.



Western blot - Anti-SOD2/MnSOD (acetyl K68) antibody [EPVANR2] (ab137037)

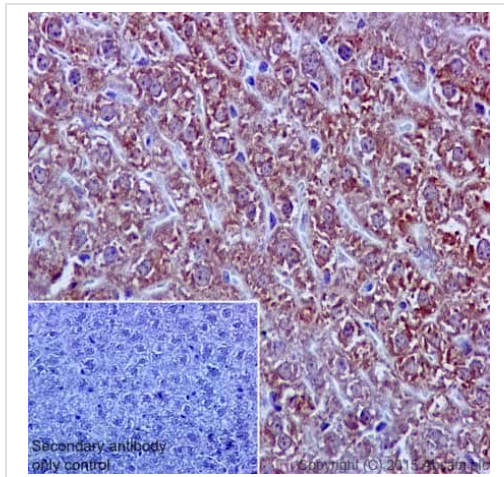
Anti-SOD2/MnSOD (acetyl K68) antibody [EPVANR2] (ab137037) at 1/1000 dilution (purified) + Mouse heart lysate at 20 µg

### Secondary

Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/10000 dilution

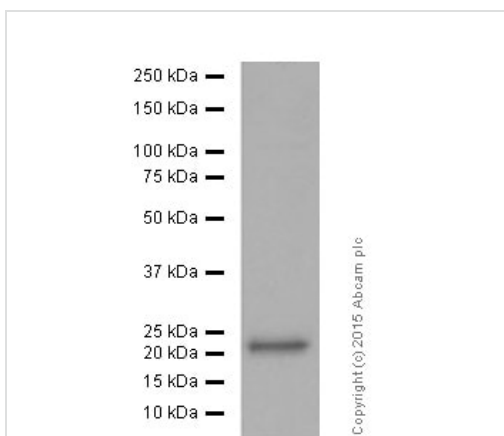
**Predicted band size: 24 kDa**

Blocking/Dilution buffer and concentration: 5% NFDM/TBST.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of rat liver tissue labelling SOD2 (acetyl K68) with purified ab137037 at 1/150. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. **ab97051**, a goat anti-rabbit IgG H&L (HRP) was used as the secondary antibody (1/500). Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SOD2/MnSOD (acetyl K68) antibody [EPVANR2] (ab137037)



Western blot - Anti-SOD2/MnSOD (acetyl K68) antibody [EPVANR2] (ab137037)

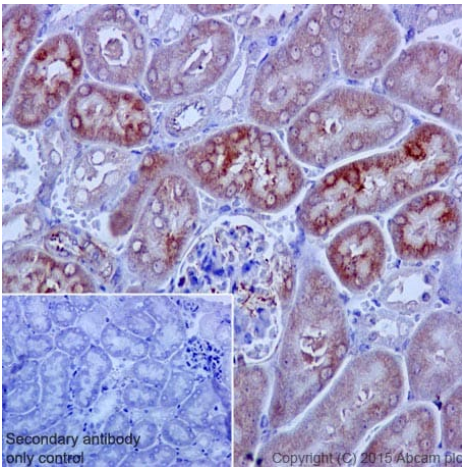
Anti-SOD2/MnSOD (acetyl K68) antibody [EPVANR2] (ab137037) at 1/1000 dilution (purified) + Rat kidney tissue lysate at 20 µg

#### Secondary

Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/10000 dilution

**Predicted band size:** 24 kDa

Blocking/Dilution buffer and concentration: 5% NFDM/TBST.

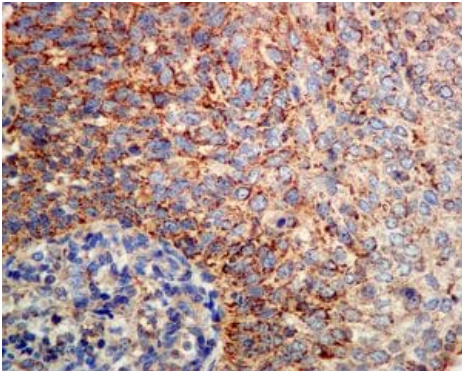


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SOD2/MnSOD (acetyl K68) antibody [EPVANR2] (ab137037)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of mouse kidney tissue labelling SOD2 (acetyl K68) with purified ab137037 at 1/150. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. **ab97051**, a goat anti-rabbit IgG H&L (HRP) was used as the secondary antibody (1/500).

Negative control using PBS instead of primary antibody.

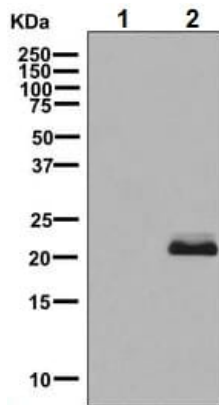
Counterstained with hematoxylin.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SOD2/MnSOD (acetyl K68) antibody [EPVANR2] (ab137037)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human cervical carcinoma tissue labelling SOD2 (acetyl K68) with unpurified ab137037 at 1/100 dilution.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Western blot - Anti-SOD2/MnSOD (acetyl K68) antibody [EPVANR2] (ab137037)

**All lanes :** Anti-SOD2/MnSOD (acetyl K68) antibody [EPVANR2] (ab137037) at 1/1000 dilution (unpurified)

**Lane 1 :** Non transfected HEK-293T lysate

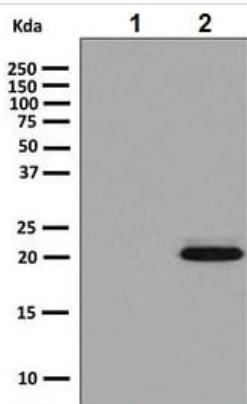
**Lane 2 :** SOD2 transfected HEK-293T lysate

Lysates/proteins at 10 µg per lane.

#### Secondary

**All lanes :** HRP conjugated Goat anti Rabbit IgG at 1/2000 dilution

**Predicted band size:** 24 kDa



Western blot - Anti-SOD2/MnSOD (acetyl K68) antibody [EPVANR2] (ab137037)

**All lanes :** Anti-SOD2/MnSOD (acetyl K68) antibody [EPVANR2] (ab137037) at 1/1000 dilution (unpurified)

**Lane 1 :** Non transfected HEK-293T cell lysate with with Acetyl SOD2 (K68) peptide

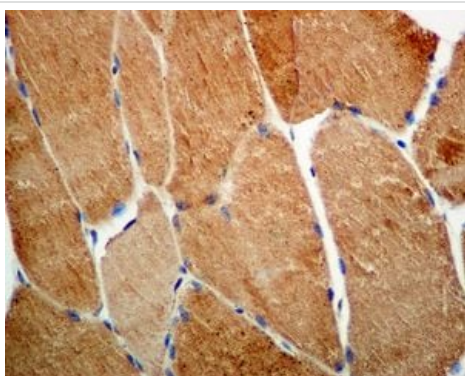
**Lane 2 :** SOD2 transfected HEK-293T cell lysate with control peptide

Lysates/proteins at 10 µg per lane.

#### Secondary

**All lanes :** HRP conjugated Goat anti Rabbit IgG at 1/2000 dilution

**Predicted band size:** 24 kDa

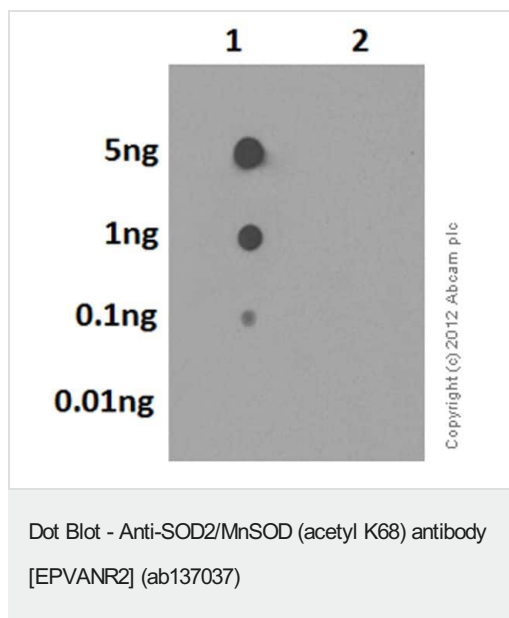


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SOD2/MnSOD (acetyl K68) antibody [EPVANR2] (ab137037)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human muscle tissue labelling SOD2 (acetyl K68) with unpurified ab137037 at 1/100 dilution.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.





Dot blot analysis labelling SOD2 (acetyl K68) with ab137037 at a dilution of 1/1000. Peroxidase conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody at a dilution of 1/2500.

**Blocking and diluting buffer:** 5% NFDM/TBST.

**Lane 1:** SOD2 (acetyl K68) acetylated peptide.

**Lane 2:** SOD2 Non-acetylated peptide.

**Exposure time:** 3 minutes.

Why choose a recombinant antibody?

<p><b>Research with confidence</b> Consistent and reproducible results</p>	<p><b>Long-term and scalable supply</b> Recombinant technology</p>
<p><b>Success from the first experiment</b> Confirmed specificity</p>	<p><b>Ethical standards compliant</b> Animal-free production</p>

Anti-SOD2/MnSOD (acetyl K68) antibody  
[EPVANR2] (ab137037)

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