

### Anti-SPR antibody [EPR9290] ab157194

敲除验证
重组
RabMAb

★★★★☆
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#### 概述

产品名称	Anti-SPR抗体[EPR9290]
描述	兔单克隆抗体[EPR9290] to SPR
宿主	Rabbit
经测试应用	<b>适用于:</b> Flow Cyt (Intra), WB, IHC-P, ICC/IF, IP
种属反应性	<b>与反应:</b> Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: A549, MCF7, HepG2 and HeLa ( <b>ab150035</b> ) cell lysates. IHC-P: Human thyroid gland carcinoma tissue. ICC/IF: HeLa cells. Flow Cyt (intra): MCF7 cells.
常规说明	<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> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</p>

#### 性能

形式	Liquid
存放说明	Shipped at 4°C. Store at -20°C.
存储溶液	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.5% BSA</p>
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR9290

同种型

lgG

应用

The Abpromise guarantee

Abpromise™承诺保证使用ab157194于以下的经测试应用

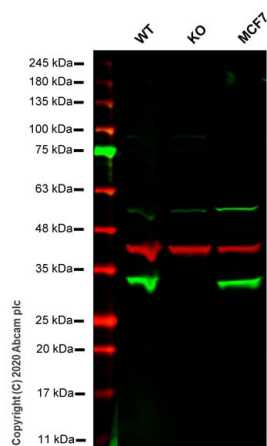
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
Flow Cyt (Intra)		1/100 - 1/500. <b>ab172730</b> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB	★★★★★ (1)	1/1000 - 1/10000. Predicted molecular weight: 28 kDa.
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
ICC/IF		1/100 - 1/250.
IP		1/10 - 1/100.

靶标

功能	Catalyzes the final one or two reductions in tetra-hydrobiopterin biosynthesis to form 5,6,7,8-tetrahydrobiopterin.
疾病相关	Defects in SPR are the cause of dystonia DOPA-responsive due to sepiapterin reductase deficiency (DRDSPRD) [MIM:612716]. In the majority of cases, patients manifest progressive psychomotor retardation, dystonia and spasticity. Cognitive anomalies are also often present. The disease is due to severe dopamine and serotonin deficiencies in the central nervous system caused by a defect in BH4 synthesis. Dystonia is defined by the presence of sustained involuntary muscle contractions, often leading to abnormal postures.
序列相似性	Belongs to the sepiapterin reductase family.
翻译后修饰	In vitro phosphorylation of Ser-213 by CaMK2 does not change kinetic parameters.
细胞定位	Cytoplasm.

图片



Western blot - Anti-SPR antibody [EPR9290]  
(ab157194)

**All lanes :** Anti-SPR antibody [EPR9290] (ab157194) at 1/1000 dilution

**Lane 1 :** Wild-type HeLa cell lysate

**Lane 2 :** SPR knockout HeLa cell lysate

**Lane 3 :** MCF7 cell lysate

Lysates/proteins at 20 µg per lane.

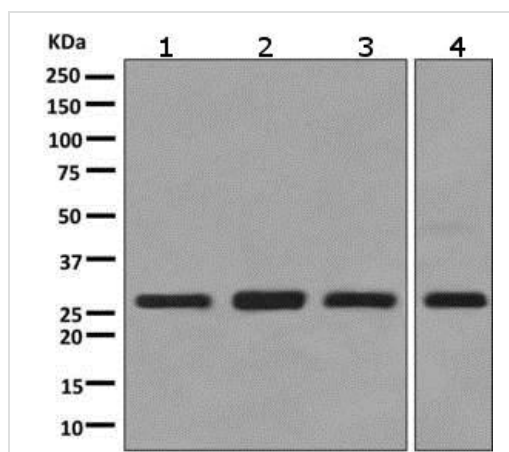
Performed under reducing conditions.

**Predicted band size:** 28 kDa

**Observed band size:** 26 kDa

**Lanes 1-3:** Merged signal (red and green). Green - ab157194 observed at 26 kDa. Red - loading control, **ab8245** observed at 37 kDa.

ab157194 Anti-SPR antibody [EPR9290] was shown to specifically react with SPR in wild-type HeLa cells. Loss of signal was observed when knockout cell line **ab264681** (knockout cell lysate **ab258700**) was used. Wild-type and SPR knockout samples were subjected to SDS-PAGE. ab157194 and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) were incubated overnight at 4°C at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1 in 10000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-SPR antibody [EPR9290]  
(ab157194)

**All lanes :** Anti-SPR antibody [EPR9290] (ab157194) at 1/1000 dilution

**Lane 1 :** A549 cell lysate

**Lane 2 :** MCF7 cell lysate

**Lane 3 :** HepG2 cell lysate

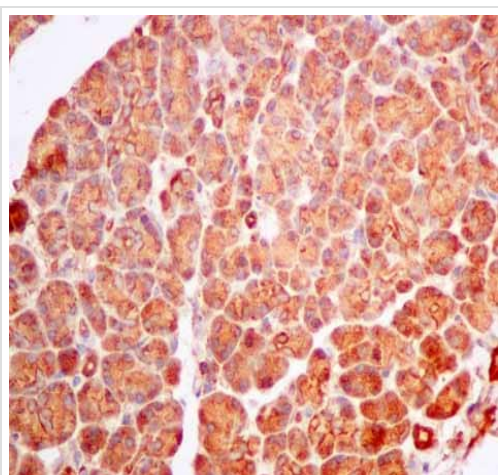
**Lane 4 :** HeLa cell lysate

Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes :** Goat anti-rabbit HRP at 1/2000 dilution

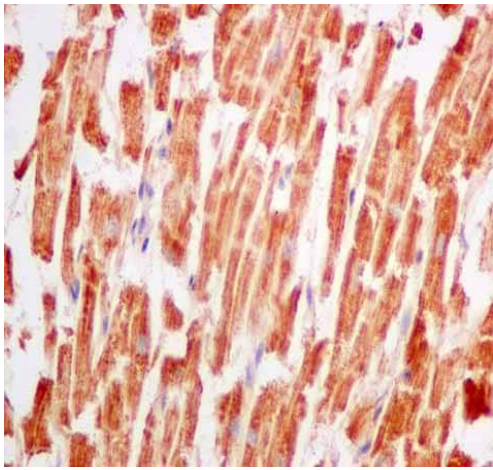
**Predicted band size:** 28 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SPR antibody [EPR9290]  
(ab157194)

ab157194 showing +ve staining in Human normal pancreas.

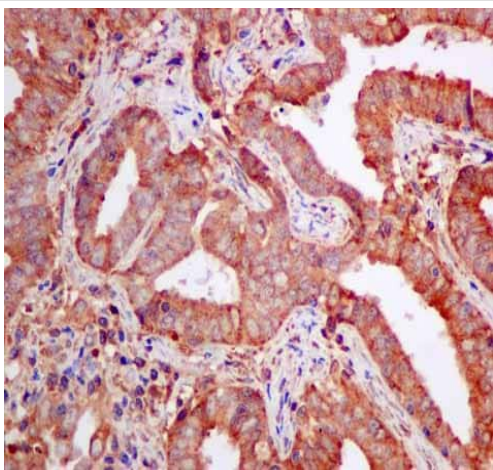
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SPR antibody [EPR9290] (ab157194)

ab157194 showing +ve staining in Human heart.

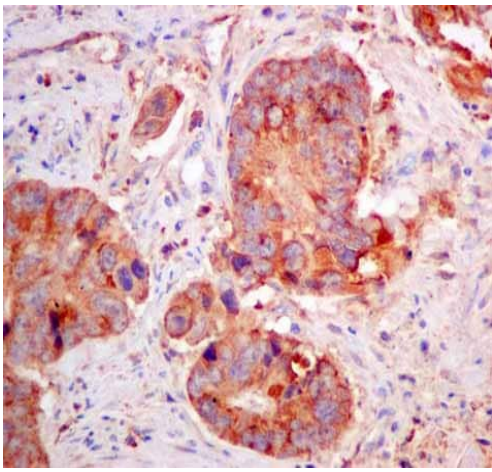
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SPR antibody [EPR9290] (ab157194)

ab157194 showing +ve staining in Human endometrial carcinoma.

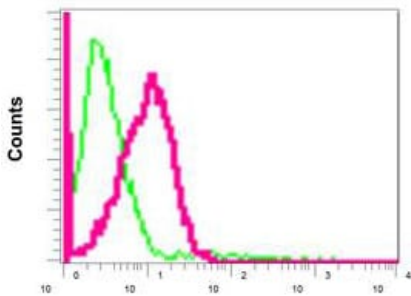
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SPR antibody [EPR9290] (ab157194)

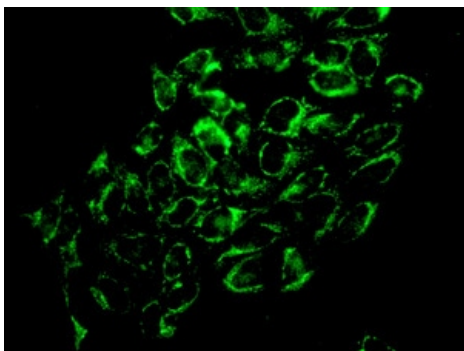
ab157194 showing +ve staining in Human colonic adenocarcinoma.

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



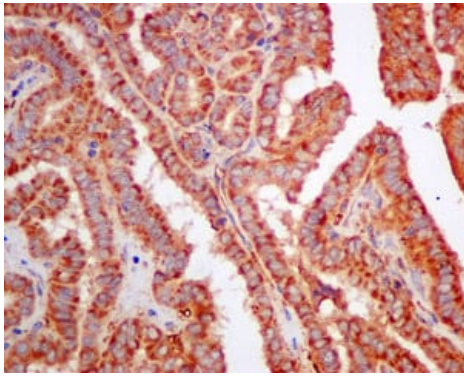
Flow Cytometry (Intracellular) - Anti-SPR antibody [EPR9290] (ab157194)

Intracellular Flow Cytometric analysis of permeabilized MCF7 cells labeling TPST2 with ab157194 at 1/100 (red) or a rabbit IgG (negative) (green).



Immunocytochemistry/ Immunofluorescence - Anti-SPR antibody [EPR9290] (ab157194)

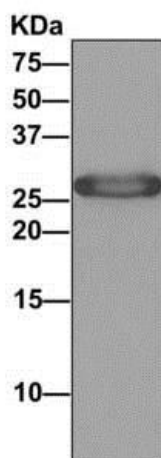
Immunofluorescent analysis of HeLa cells labeling TPST2 with ab157194 at 1/100 dilution.



Immunohistochemical analysis of paraffin-embedded human thyroid gland carcinoma tissue labeling TPST2 with ab157194 at 1/100 dilution.

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

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SPR antibody [EPR9290] (ab157194)



Detection of TPST2 by Western Blot of immunoprecipitate. MCF7 cell lysate immunoprecipitated using ab157194 at 1/10 dilution.

Immunoprecipitation - Anti-SPR antibody [EPR9290] (ab157194)

Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-SPR antibody [EPR9290] (ab157194)

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



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