

# Anti-beta 2 Adrenergic Receptor antibody [EPR707(N)] ab182136

重组 RabMAb

★★★★☆ **5 Abreviews** **50 References** **7 图像**

### 概述

产品名称	Anti-beta 2 Adrenergic Receptor抗体[EPR707(N)]
描述	兔单克隆抗体[EPR707(N)] to beta 2 Adrenergic Receptor
宿主	Rabbit
经测试应用	<b>适用于:</b> WB, IHC-P, IHC-Fr <b>不适用于:</b> Flow Cyt or ICC/IF
种属反应性	<b>与反应:</b> Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: Human fetal liver, Human skeletal muscle, Mouse heart, Rat heart, Mouse kidney, Rat kidney, and A431 lysates; IHC-P: Rat stomach, Human stomach and Mouse cerebrum tissues; IHC-Fr: Mouse stomach tissue section.
常规说明	This product is a recombinant monoclonal antibody, which offers several advantages including: <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> For more information <a href="#">see here</a> . 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> .

### 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 long term. Avoid freeze / thaw cycle.
存储溶液	Preservative: 0.01% Sodium azide Constituents: 40% Glycerol, PBS, 0.05% BSA
纯度	Protein A purified
克隆	单克隆

克隆编号                      EPR707(N)  
同种型                         IgG

## 应用

**The Abpromise guarantee**           **Abpromise™**承诺保证使用ab182136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
WB	★★★★☆ (4)	1/1000 - 1/10000. Detects a band of approximately 68 kDa (predicted molecular weight: 46 kDa).
IHC-P		1/100. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. For lower background staining, perform heat mediated antigen retrieval with citrate buffer pH 6. <b>For unpurified use at 1/250.</b> See <a href="#">IHC antigen retrieval protocols</a> .
IHC-Fr	★★★★★ (1)	1/100. Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20)

应用说明                               Is unsuitable for Flow Cyt or ICC/IF.

## 靶标

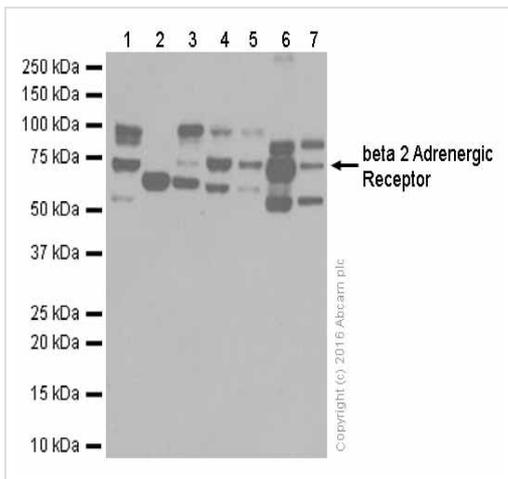
**功能**                                   Beta-adrenergic receptors mediate the catecholamine-induced activation of adenylate cyclase through the action of G proteins. The beta-2-adrenergic receptor binds epinephrine with an approximately 30-fold greater affinity than it does norepinephrine.

**序列相似性**                           Belongs to the G-protein coupled receptor 1 family. Adrenergic receptor subfamily. ADRB2 sub-subfamily.

**翻译后修饰**                           Palmitoylated; may reduce accessibility of Ser-345 and Ser-346 by anchoring Cys-341 to the plasma membrane. Agonist stimulation promotes depalmitoylation and further allows Ser-345 and Ser-346 phosphorylation.  
Phosphorylated by PKA and BARK upon agonist stimulation, which mediates homologous desensitization of the receptor. PKA-mediated phosphorylation seems to facilitate phosphorylation by BARK. Phosphorylated upon DNA damage, probably by ATM or ATR.  
Phosphorylation of Tyr-141 is induced by insulin and leads to supersensitization of the receptor. Ubiquitinated. Agonist-induced ubiquitination leads to sort internalized receptors to the lysosomes for degradation. Deubiquitination by USP20 and USP33, leads to ADRB2 recycling and resensitization after prolonged agonist stimulation. USP20 and USP33 are constitutively associated and are dissociated immediately after agonist stimulation.

**细胞定位**                             Cell membrane.

## 图片



Western blot - Anti-beta 2 Adrenergic Receptor antibody [EPR707(N)] (ab182136)

**All lanes** : Anti-beta 2 Adrenergic Receptor antibody [EPR707(N)] (ab182136) at 0.1 µg/ml (purified)

**Lane 1** : A431 ( Human epidermoid carcinoma epithelial cell) whole cell lysates

**Lane 2** : Human skeletal muscle lysates

**Lane 3** : Human fetal liver lysates

**Lane 4** : Mouse heart lysates

**Lane 5** : Rat heart lysates

**Lane 6** : Mouse kidney lysates

**Lane 7** : Rat kidney lysates

Lysates/proteins at 20 µg per lane.

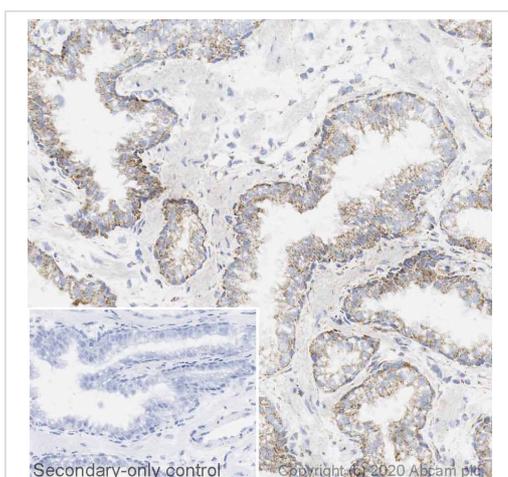
### Secondary

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

**Predicted band size:** 46 kDa

Blocking and diluting buffer: 5% NFDM/TBST

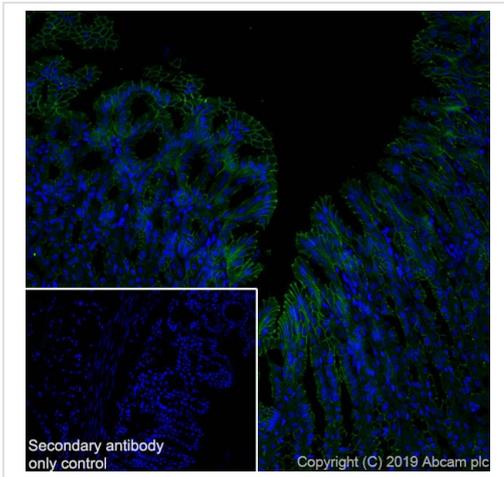
The 50-90kda bands detected by ab182136 are consistent with many literatures, like PMID: 2836733, PMID: 17570158, PMID: 11701618, PMID: 2545714, PMID: 16708760. These bands have not been confirmed experimentally.



Immunohistochemistry (Frozen sections) - Anti-beta 2 Adrenergic Receptor antibody [EPR707(N)] (ab182136)

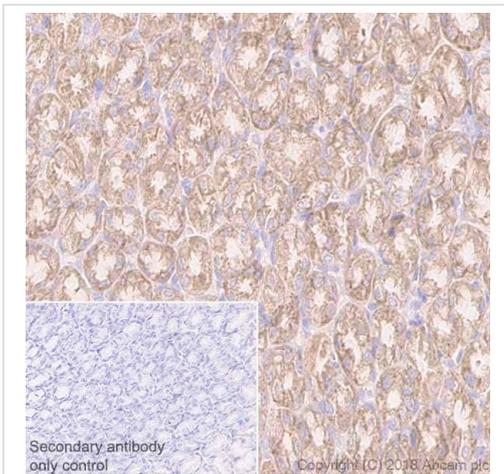
IHC image of beta 2 Adrenergic Receptor staining in a section of frozen human prostate carcinoma performed on a Leica BOND™ system using the standard protocol. The section was fixed in 10% paraformaldehyde (10 min) prior to staining. The section was incubated with ab182136, 1/750 dilution, for 15 mins 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. The inset secondary-only control image is taken from an identical assay without primary antibody.

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.



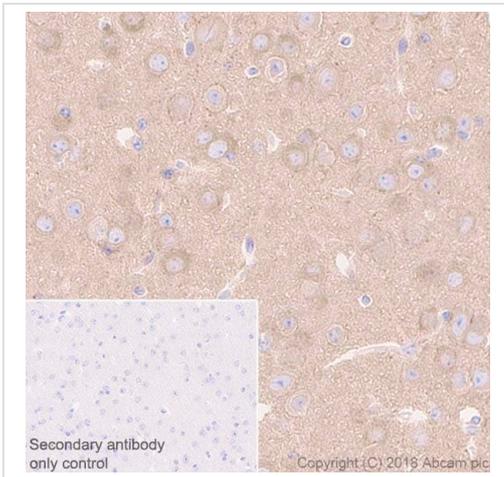
Immunohistochemistry (Frozen sections) analysis of mouse stomach tissue sections labeling beta 2 Adrenergic Receptor with Purified ab182136 at 1/100 (1.3 µg/ml). Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20). Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. DAPI was used as a counterstain.

Immunohistochemistry (Frozen sections) - Anti-beta 2 Adrenergic Receptor antibody [EPR707(N)] (ab182136)



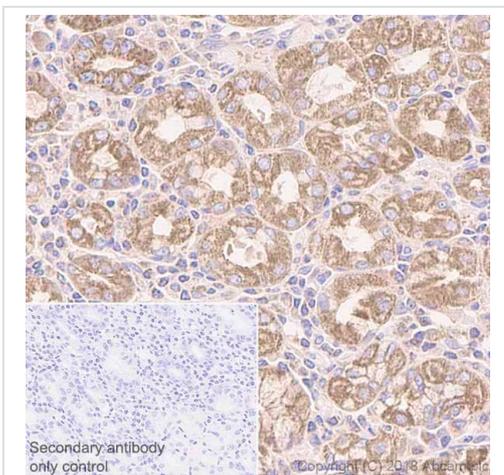
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Rat stomach tissue sections labeling beta 2 Adrenergic Receptor with Purified ab182136 at 1:100 dilution (1.28 µg/ml). Heat mediated antigen retrieval was performed using **ab93684** (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-beta 2 Adrenergic Receptor antibody [EPR707(N)] (ab182136)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-beta 2 Adrenergic Receptor antibody [EPR707(N)] (ab182136)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Mouse cerebrum tissue sections labeling beta 2 Adrenergic Receptor with Purified ab182136 at 1:100 dilution (1.28 µg/ml). Heat mediated antigen retrieval was performed using **ab93684** (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-beta 2 Adrenergic Receptor antibody [EPR707(N)] (ab182136)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human stomach tissue sections labeling beta 2 Adrenergic Receptor with Purified ab182136 at 1:100 dilution (1.28 µg/ml). Heat mediated antigen retrieval was performed using **ab93684** (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.

### 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-beta 2 Adrenergic Receptor antibody

[EPR707(N)] (ab182136)

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

### Our Abpromise to you: Quality guaranteed and expert technical support

---

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.cn/abpromise> or contact our technical team.

### Terms and conditions

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors