

# Anti-Parvalbumin antibody [EPR13091] ab181086

リコンビナント RabMAb

★★★★★ [5 Abreviews](#) [5 References](#) [画像数 16](#)

### 製品の概要

製品名	Anti-Parvalbumin antibody [EPR13091]
製品の詳細	Rabbit monoclonal [EPR13091] to Parvalbumin
由来種	Rabbit
アプリケーション	<b>適用あり:</b> WB, IHC-P, IP, IHC-Fr
種交差性	<b>交差種:</b> Mouse, Rat, Human
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	IHC-P: human kidney carcinoma, and human cerebrum tissues. Human chromophobe carcinoma tissue IHC-Fr: Mouse and rat cerebellum. WB: Human cerebellum tissue lysate; Recombinant Human Parvalbumin protein ( <a href="#">ab101107</a> ) can be used as a positive control in WB.
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	Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR13091
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ab181086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検討ください。

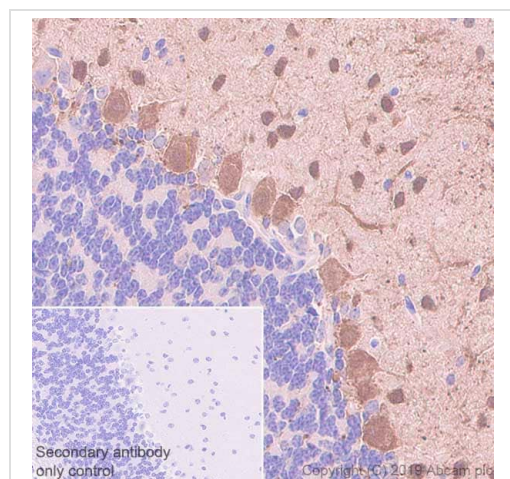
アプリケーション	Abreviews	特記事項
WB		1/1000 - 1/10000. Detects a band of approximately 12 kDa (predicted molecular weight: 12 kDa).
IHC-P		1/250 - 1/500. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. See <b><u>IHC antigen retrieval protocols</u></b> .
IP		1/40.
IHC-Fr	★★★★★ (1)	1/100.

## ターゲット情報

**機能** In muscle, parvalbumin is thought to be involved in relaxation after contraction. It binds two calcium ions.

**配列類似性** Belongs to the parvalbumin family.  
Contains 2 EF-hand domains.

## 画像

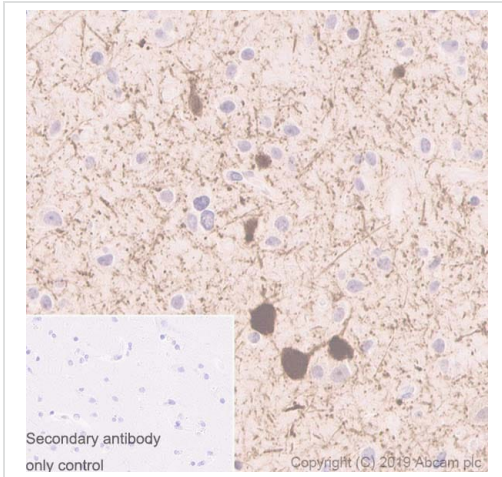


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Parvalbumin antibody [EPR13091] (ab181086)

Unpurified ab181086 staining Parvalbumin in mouse cerebellum tissue sections by Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections). Heat mediated antigen retrieval was performed using **ab93684** (Tris/EDTA buffer, pH 9.0). Samples were incubated with primary antibody (1/450). A Goat Anti-Rabbit IgG H&L (HRP) was used as the secondary antibody. Counterstained with Hematoxylin.

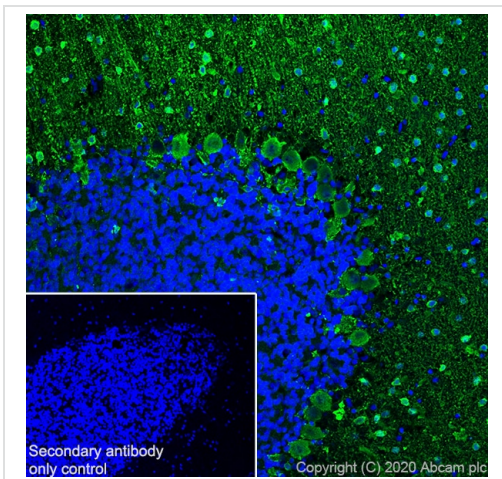
Positive staining on Purkinje cells and neurons of the molecular layer in cerebellum (PMID: 22561329).

The section was incubated with ab181086 for 30 mins at RT. The immunostaining was performed on a Leica Biosystems BOND® RX instrument.



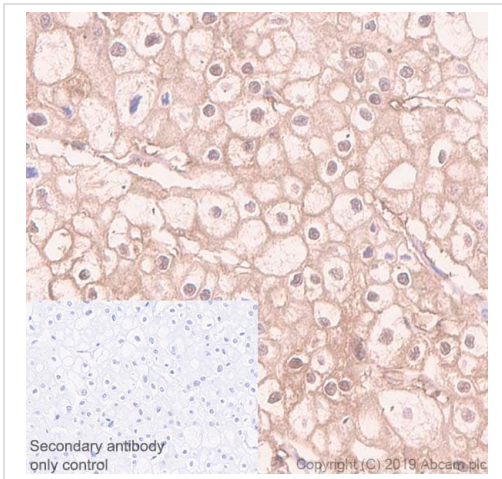
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human cerebrum tissue sections labeling Parvalbumin with purified ab181086 at 1/450 dilution (0.46 µg/ml). Perform heat mediated antigen retrieval using **ab93684** (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP 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-Parvalbumin antibody [EPR13091] (ab181086)



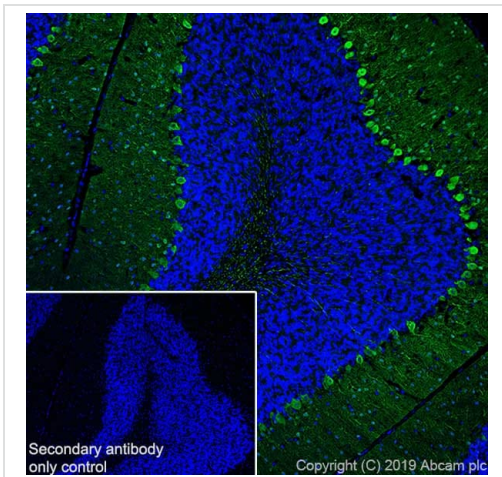
ab181086 staining Parvalbumin in rat cerebrum tissue sections by Immunohistochemistry (IHC-Fr - frozen sections). Tissue was fixed with 4% PFA, permeabilized with 0.2% Triton X-100. Heat mediated antigen retrieval was performed using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20). Samples were incubated with primary antibody (1/250). **ab150077** an AlexaFluor®488 Goat anti-Rabbit secondary (1/1000) was used as the secondary antibody. The Nuclear counter stain DAPI was used. Positive staining on purkinje cells and neuron cells of rat cerebellum.

Immunohistochemistry (Frozen sections) - Anti-Parvalbumin antibody [EPR13091] (ab181086)



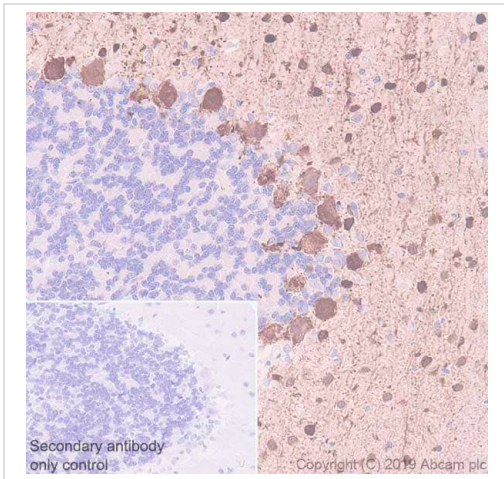
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Parvalbumin antibody [EPR13091] (ab181086)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human kidney carcinoma tissue sections labeling Parvalbumin with purified ab181086 at 1/450 dilution (0.46 µg/ml). Perform heat mediated antigen retrieval 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 (Frozen sections) - Anti-Parvalbumin antibody [EPR13091] (ab181086)

Unpurified ab181086 staining Parvalbumin in Mouse cerebrum tissue sections by Immunohistochemistry (IHC-Fr - frozen sections). Tissue was fixed with 4% PFA, permeabilized with 0.2% Triton. Heat mediated antigen retrieval was performed using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20). Samples were incubated with primary antibody (1/100). Ab150077 an AlexaFluor®488 Goat anti-Rabbit secondary (1/1000) was used as the secondary antibody. The Nuclear counter stain DAPI was used. Positive staining on Purkinje cells and neurons of the molecular layer in cerebellum (PMID: 22561329).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Parvalbumin antibody [EPR13091] (ab181086)

Unpurified ab181086 staining Parvalbumin in rat cerebellum tissue sections by Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections). Heat mediated antigen retrieval was performed using [ab93684](#) (Tris/EDTA buffer, pH 9.0). Samples were incubated with primary antibody (1/450). A Goat Anti-Rabbit IgG H&L (HRP) was used as the secondary antibody. Counterstained with Hematoxylin.

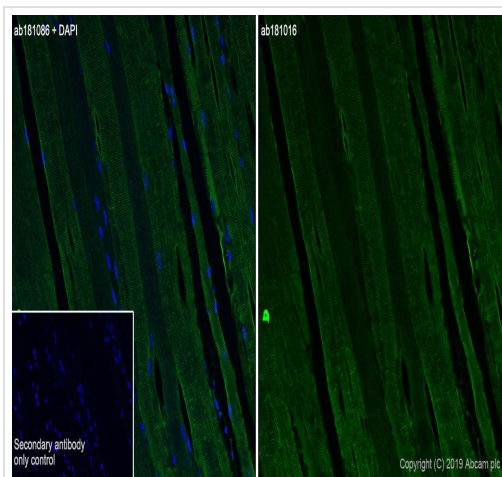
Positive staining on Purkinje cells and neurons of the molecular layer in rat cerebellum (PMID: 22561329).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Parvalbumin antibody [EPR13091] (ab181086)

Unpurified ab181086 staining Parvalbumin in Mouse skeletal muscle tissue sections by Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections). Heat mediated antigen retrieval was performed using [ab93684](#) (Tris/EDTA buffer, pH 9.0). Samples were incubated with primary antibody (1/450). A Goat Anti-Rabbit IgG H&L (HRP) was used as the secondary antibody. Counterstained with Hematoxylin.

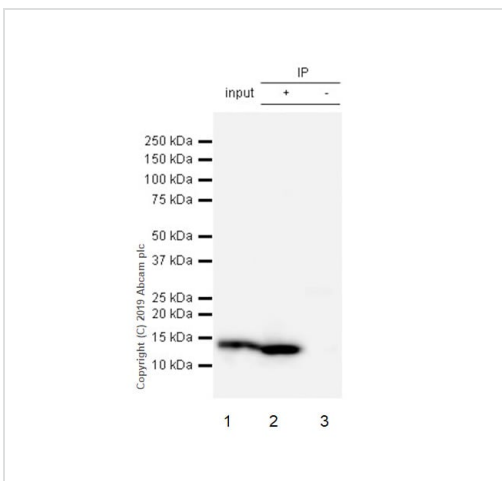
Positive staining on mouse skeletal muscle (PMID: 1837548).



Immunohistochemistry (Frozen sections) - Anti-Parvalbumin antibody [EPR13091] (ab181086)

Unpurified ab181086 staining Parvalbumin in Mouse skeletal muscle tissue sections by Immunohistochemistry (IHC-Fr - frozen sections). Tissue was fixed with 4% PFA, permeabilized with 0.2% Triton. Heat mediated antigen retrieval was performed using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20). Samples were incubated with primary antibody (1/100). Ab150077 an AlexaFluor®488 Goat anti-Rabbit secondary (1/1000) was used as the secondary antibody. The Nuclear counter stain DAPI was used.

Positive staining on skeletal muscles (PMID: 7604022).



Immunoprecipitation - Anti-Parvalbumin antibody [EPR13091] (ab181086)

ab181086 (purified) at 1:20 dilution (1µg) immunoprecipitating Parvalbumin in Human cerebellum lysate.

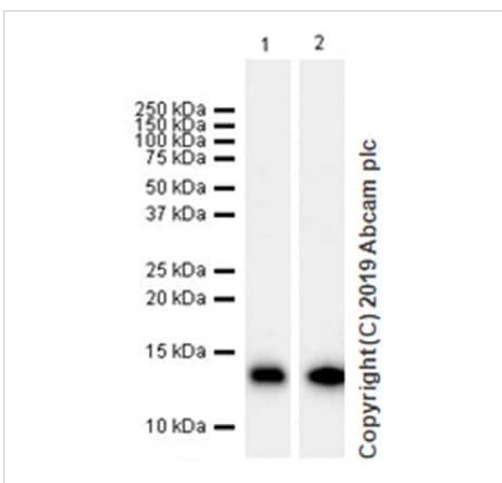
**Lane 1:** Human cerebellum lysate 10µg

**Lane 2 (+):** ab181086 & Human cerebellum lysate

**Lane 3 (-):** Rabbit monoclonal IgG (**ab172730**) instead of ab181086 in Human cerebellum lysate

For western blotting, VeriBlot for IP Detection reagent (HRP) (**ab131366**) was used at 1:5000 dilution.

Blocking and diluting buffer: 5% NFD/MTBST.



Western blot - Anti-Parvalbumin antibody [EPR13091] (ab181086)

**All lanes :** Anti-Parvalbumin antibody [EPR13091] (ab181086) at 1/1000 dilution ((unpurified))

**Lane 1 :** Mouse skeletal muscle lysate prepared using RIPA lysis method

**Lane 2 :** Rat skeletal muscle lysate prepared using RIPA lysis method

Lysates/proteins at 20 µg per lane.

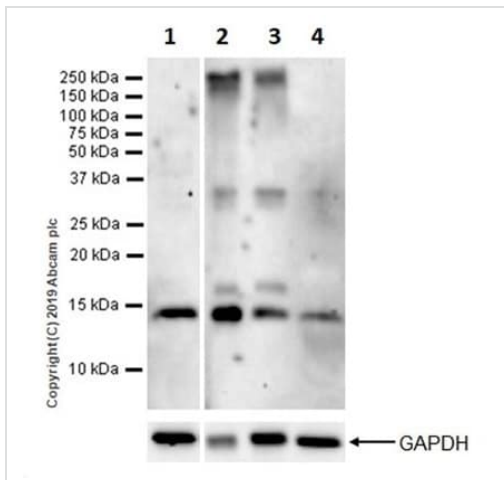
### Secondary

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

**Predicted band size:** 12 kDa

**Observed band size:** 12 kDa

**Exposure time:** 75 seconds



Western blot - Anti-Parvalbumin antibody  
[EPR13091] (ab181086)

**All lanes :** Anti-Parvalbumin antibody [EPR13091] (ab181086) at 1/1000 dilution ((unpurified))

**Lane 1 :** Mouse cerebellum lysate prepared using RIPA lysis method

**Lane 2 :** Mouse cerebellum lysate prepared using 1% SDS hot lysis method

**Lane 3 :** Rat cerebellum lysate prepared using 1% SDS hot lysis method

**Lane 4 :** Human brain lysate prepared using RIPA lysis method

Lysates/proteins at 20 µg per lane.

### Secondary

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#))

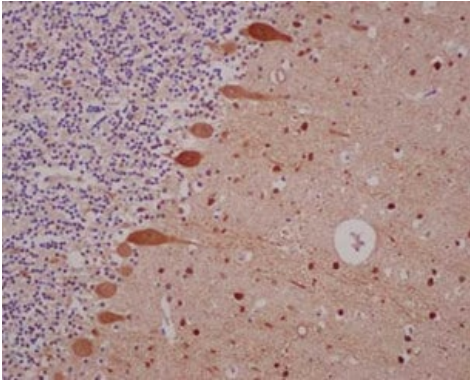
**Predicted band size:** 12 kDa

**Observed band size:** 12 kDa

**Exposure time:** 3 minutes

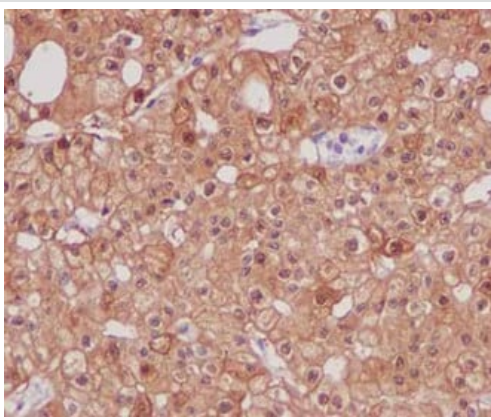
The rat cerebellum lysate in lane 3 is prepared by 1%SDS hot lysis method. This antibody can work in RIPA and 1% SDS hot lysates in WB.

For Lysate preparation protocol, please refer to the protocol book in the protocol section.



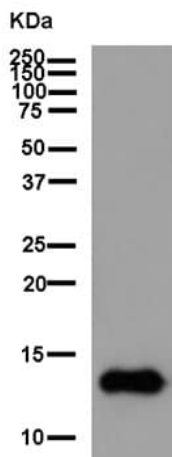
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Parvalbumin antibody [EPR13091] (ab181086)

Immunohistochemical analysis of paraffin-embedded Human cerebellum tissue labeling Parvalbumin with ab181086 at a 1/500 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Parvalbumin antibody [EPR13091] (ab181086)

Immunohistochemical analysis of paraffin-embedded Human chromophobe carcinoma tissue labeling Parvalbumin with unpurified ab181086 at a 1/500 dilution.



Western blot - Anti-Parvalbumin antibody [EPR13091] (ab181086)

Anti-Parvalbumin antibody [EPR13091] (ab181086) at 1/10000 dilution ((unpurified)) + Human cerebellum tissue lysate at 20 µg

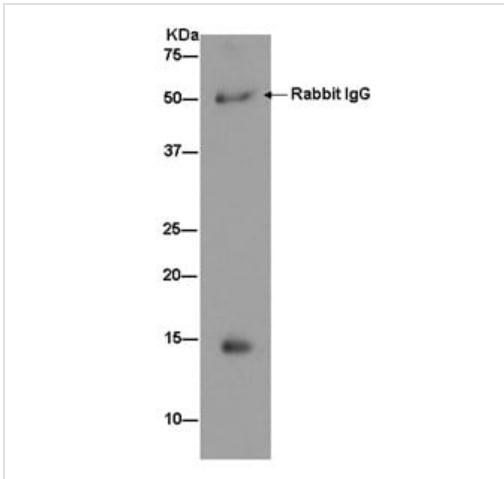
#### Secondary

Goat Anti-Rabbit IgG H&L (HRP) ([ab136636](#)) at 1/500 dilution

Developed using the ECL technique.

**Predicted band size:** 12 kDa





Western blot analysis on immunoprecipitation pellet from Human cerebellum tissue lysate labeling Parvalbumin with unpurified ab181086 at 1/40 dilution.

Immunoprecipitation - Anti-Parvalbumin antibody [EPR13091] (ab181086)

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-Parvalbumin antibody [EPR13091] (ab181086)

**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.co.jp/abpromise> or contact our technical team.

## Terms and conditions

---

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