

Anti-Parvalbumin antibody [EPR13091] - BSA and Azide free ab243695

Recombinant RabMAb

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Overview

Product name	Anti-Parvalbumin antibody [EPR13091] - BSA and Azide free
Description	Rabbit monoclonal [EPR13091] to Parvalbumin - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: IHC-P, IP, IHC-Fr, WB
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	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 (ab101107) can be used as a positive control in WB.
General notes	<p>ab243695 is the carrier-free version of ab181086.</p> <p>Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR13091
Isotype	IgG

Applications

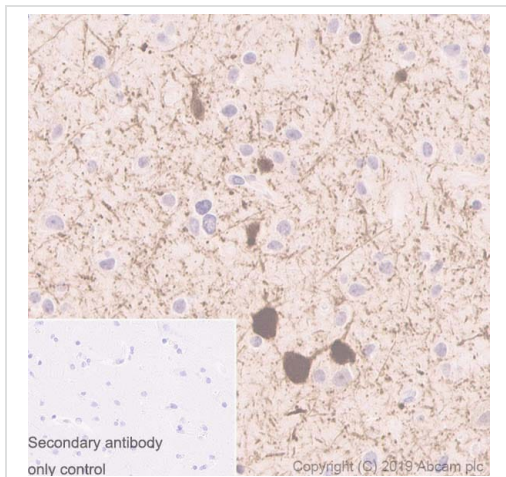
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab243695 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. See IHC antigen retrieval protocols .
IP		Use at an assay dependent concentration.
IHC-Fr		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Detects a band of approximately 12 kDa (predicted molecular weight: 12 kDa).

Target

Function	In muscle, parvalbumin is thought to be involved in relaxation after contraction. It binds two calcium ions.
Sequence similarities	Belongs to the parvalbumin family. Contains 2 EF-hand domains.

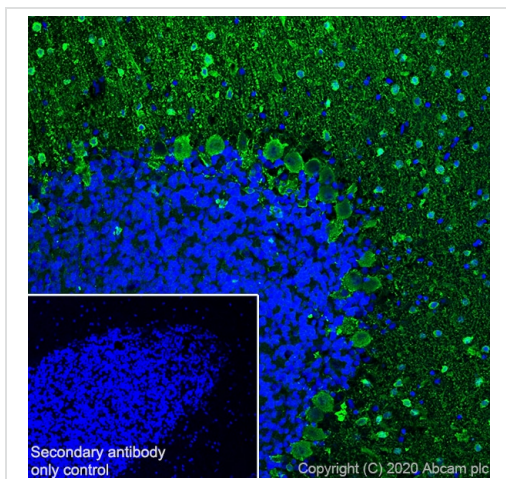
Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Parvalbumin antibody [EPR13091] - BSA and Azide free (ab243695)

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.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab181086**).

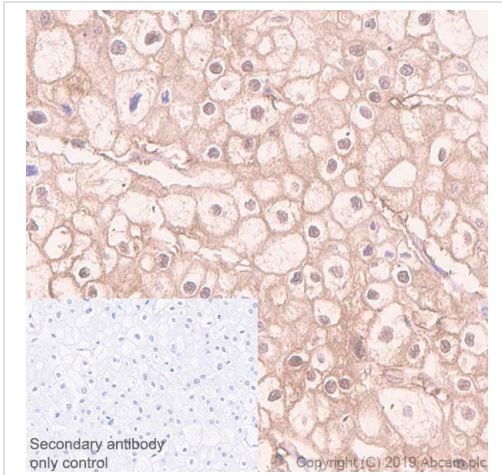


Immunohistochemistry (Frozen sections) - Anti-Parvalbumin antibody [EPR13091] - BSA and Azide free (ab243695)

ab181086 staining Parvalbumin in rat cerebellum 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.

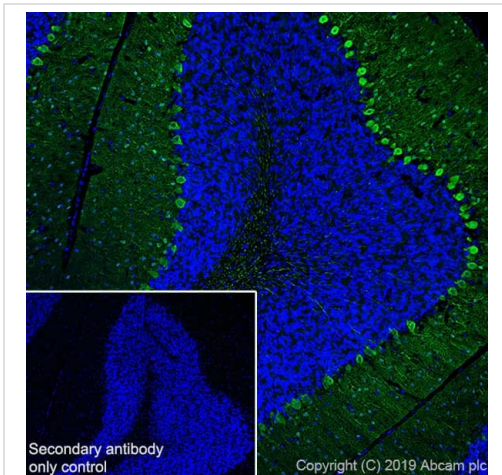
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab181086**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Parvalbumin antibody [EPR13091] - BSA and Azide free (ab243695)

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.

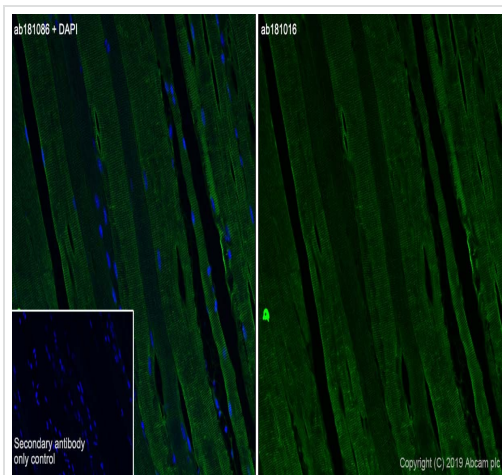
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab181086**)



Immunohistochemistry (Frozen sections) - Anti-Parvalbumin antibody [EPR13091] - BSA and Azide free (ab243695)

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).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab181086**).







Immunohistochemistry (Frozen sections) - Anti-Parvalbumin antibody [EPR13091] - BSA and Azide free (ab243695)

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).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab181086**).

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

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