


Product datasheet

Anti-A2BP1/Fox1/RBFOX1 antibody [EPR23656-5] ab254413

Recombinant RabMAb

★★★★★ **3 Abreviews** 17 Images

Overview

Product name	Anti-A2BP1/Fox1/RBFOX1 antibody [EPR23656-5]
Description	Rabbit monoclonal [EPR23656-5] to A2BP1/Fox1/RBFOX1
Host species	Rabbit
Tested applications	Suitable for: WB, ICC/IF, IHC-Fr, mlHC, IHC-P, Flow Cyt (Intra) Unsuitable for: IP
Species reactivity	Reacts with: Mouse, Rat, Human Predicted to work with: Common marmoset 
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Mouse brain cortex, brain and skeletal muscle; Rat brain and brain cortex. IHC-P: Human cerebrum and skeletal muscle; Rat cerebrum; Mouse cerebrum. IHC-Fr: Mouse cerebrum, Rat cerebrum ICC/IF: Mouse primary neural/glia and rat primary neural/glia, Neuro-2a cells. Flow Cyt (intra): Mouse primary neuron cells. mlHC: Human skeletal muscle tissue.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: <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 For more information see here . Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents .

Properties

Form	Liquid
Storage instructions	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.
Storage buffer	Preservative: 0.01% Sodium azide Constituents: 59.94% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA

Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR23656-5
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab254413 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

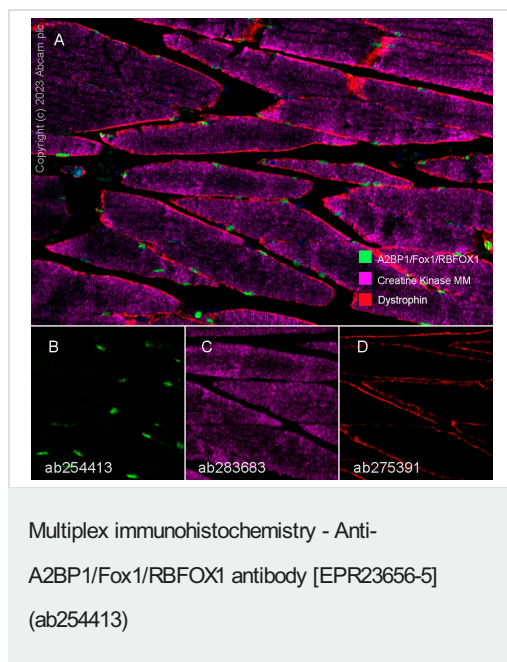
Application	Abreviews	Notes
WB		1/1000. Predicted molecular weight: 42 kDa.
ICC/IF		1/50.
IHC-Fr		1/100. Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20)
mIHC		Use a concentration of 0.239 µg/ml.
IHC-P	★★★★★ (3)	1/2000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
Flow Cyt (Intra)		1/1000.

Application notes Is unsuitable for IP.

Target

Function	RNA-binding protein that regulates alternative splicing events by binding to 5'-UGCAUGU-3' elements. Regulates alternative splicing of tissue-specific exons and of differentially spliced exons during erythropoiesis.
Tissue specificity	Predominantly expressed in muscle and brain.
Sequence similarities	Contains 1 RRM (RNA recognition motif) domain.
Cellular localization	Nucleus. Cytoplasm.

Images



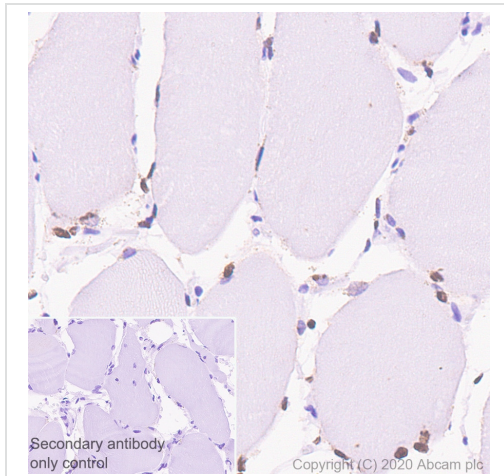
Fluorescence multiplex immunohistochemical analysis of the human skeletal muscle (Formalin/PFA-fixed paraffin-embedded sections).

Panel A: merged staining of anti-Dystrophin (**ab275391**, red; Opal™690), anti-A2BP1/Fox1/RBFOX1 (ab254413, green; Opal™520) and anti-Creatine Kinase MM (**ab283683**, magenta; Opal™570) on human skeletal muscle. Panel B: anti-A2BP1/Fox1/RBFOX1 stained on nucleus of skeletal muscle. Panel C: anti-Creatine Kinase MM stained on cytoplasm of skeletal muscle. Panel D: anti-Dystrophin stained on membrane of skeletal muscle. Opal Polymer HRP Ms + Rb was used as a secondary antibody.

The section was incubated in three rounds of staining: in the order of **ab275391** at 1/500 (2.08 µg/ml) dilution, ab254413 at 1/2000 (0.239 µg/ml) dilution, and **ab283683** at 1/3000 (0.18 µg/ml) dilution for 30 mins at room temperature. Each round was followed by a separate fluorescent tyramide signal amplification system. DAPI (blue) was used as a nuclear counter stain.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument with an Opal™ 4-color kit. Image acquisition was performed with Leica SP8 confocal microscope.

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.

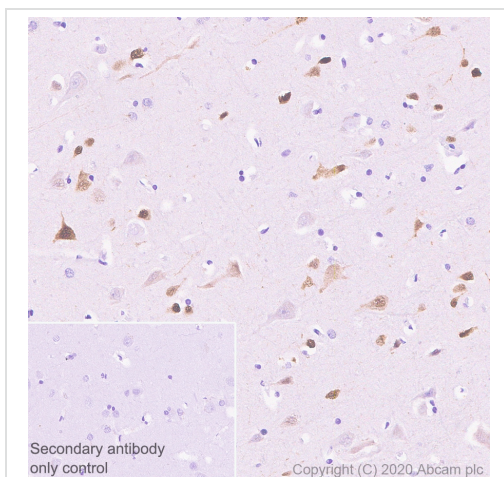


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-A2BP1/Fox1/RBFOX1 antibody [EPR23656-5] (ab254413)

Immunohistochemical analysis of paraffin-embedded Human skeletal muscle tissue labeling A2BP1/Fox1/RBFOX1 with ab254413 at 1/2000 (0.239 ug/ml) dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Positive staining on human skeletal muscle. The section was incubated with ab254413 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins

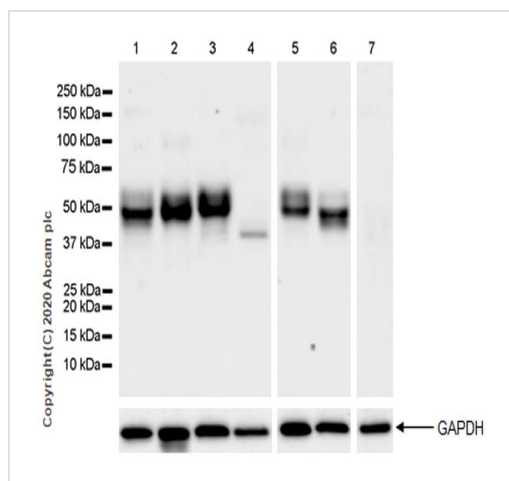


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-A2BP1/Fox1/RBFOX1 antibody [EPR23656-5] (ab254413)

Immunohistochemical analysis of paraffin-embedded Human cerebrum tissue labeling A2BP1/Fox1/RBFOX1 with ab254413 at 1/2000 (0.239 ug/ml) dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Positive staining on human brain. The section was incubated with ab254413 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins



Western blot - Anti-A2BP1/Fox1/RBFOX1 antibody [EPR23656-5] (ab254413)

All lanes : Anti-A2BP1/Fox1/RBFOX1 antibody [EPR23656-5] (ab254413) at 1/1000 dilution

Lane 1 : Mouse brain cortex tissue lysate

Lane 2 : Mouse brain tissue lysate

Lane 3 : Mouse skeletal muscle tissue lysate

Lane 4 : Mouse liver tissue lysate

Lane 5 : Rat brain tissue lysate

Lane 6 : Rat brain cortex tissue lysate

Lane 7 : Rat liver tissue lysate

Lysates/proteins at 20 µg per lane.

Secondary

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

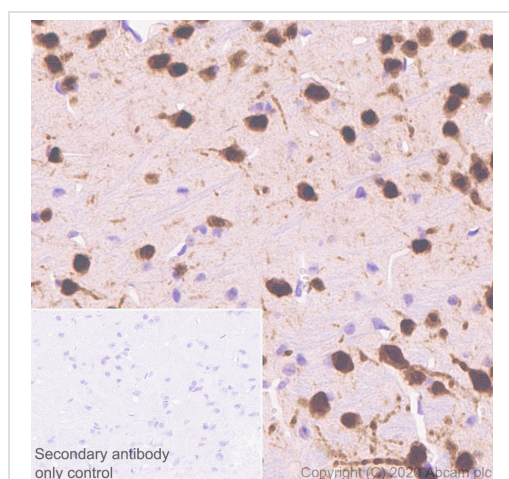
Predicted band size: 42 kDa

Observed band size: 43 kDa

Blocking and diluting buffer and concentration: 5% NFDM/TBST

Negative control: liver (PMID:12574126, PMID:16260614, PMID:20724578, PMID:20724578, PMID:10814712).

Exposure time: 37 seconds.

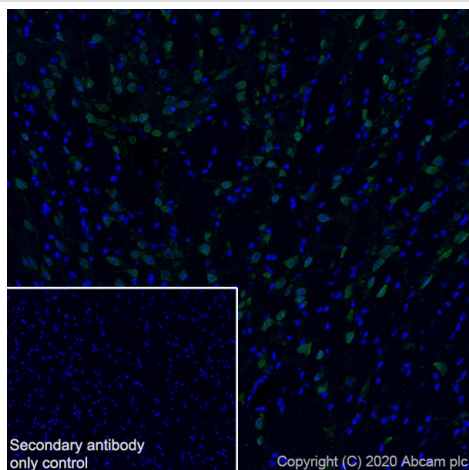


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-A2BP1/Fox1/RBFOX1 antibody [EPR23656-5] (ab254413)

Immunohistochemical analysis of paraffin-embedded Mouse cerebrum tissue labeling A2BP1/Fox1/RBFOX1 with ab254413 at 1/2000 (0.239 µg/ml) dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Positive staining on mouse cerebrum. The section was incubated with ab254413 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins

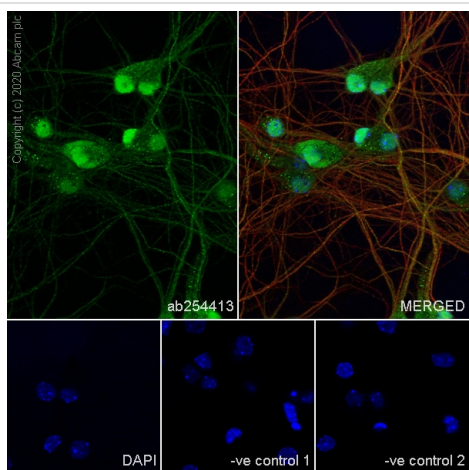


Immunohistochemistry (Frozen sections) - Anti-A2BP1/Fox1/RBFOX1 antibody [EPR23656-5] (ab254413)

Immunohistochemical analysis of 4% PFA-fixed, 0.2% Triton X-100 permeabilized frozen Mouse cerebrum tissue labeling A2BP1/Fox1/RBFOX1 with ab254413 at 1/100 (4.78 ug/ml) dilution followed by **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) at 1/1000 (2 ug/ml) dilution (Green). Positive staining on mouse cerebrum is observed. The nuclear counterstain was DAPI (Blue).

Secondary antibody control: Secondary antibody is **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) at 1/1000 dilution.

Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20).

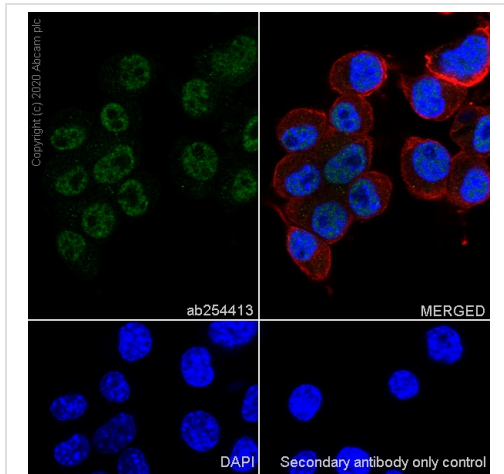


Immunocytochemistry/ Immunofluorescence - Anti-A2BP1/Fox1/RBFOX1 antibody [EPR23656-5] (ab254413)

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized mouse primary neural/glia cell cells labelling A2BP1/Fox1/RBFOX1 with ab254413 at 1/50 (9.56 ug/ml) dilution, followed by **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) antibody at 1/1000 2 ug/ml dilution (Green). Confocal image showing nuclear and cytoplasmic staining in mouse primary neuron. Confocal scanning Z step was set as 0.3 µm followed by image processing with maximum Z projection is observed.

ab11267 Anti-MAP2 mouse monoclonal antibody was used to counterstain tubulin at 1/200 2.5 dilution (Red). The Nuclear counterstain was DAPI (Blue).

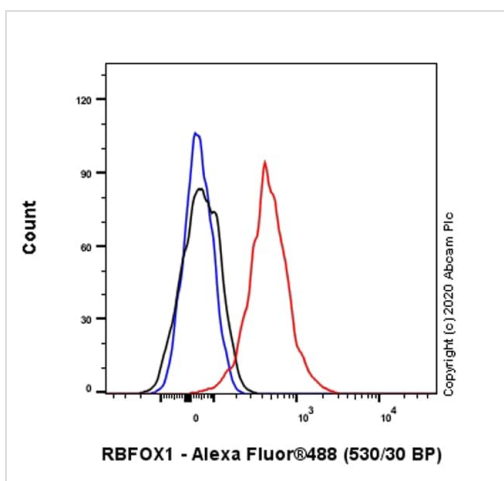
Secondary antibody only control: Secondary antibody is **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) at 1/1000 dilution.



Immunocytochemistry/ Immunofluorescence - Anti-A2BP1/Fox1/RBFOX1 antibody [EPR23656-5] (ab254413)

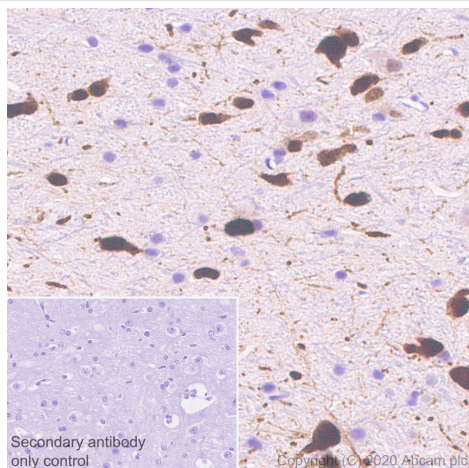
Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized Neuro-2a cells labelling A2BP1/Fox1/RBFOX1 with ab254413 at 1/50 (9.56 ug/ml) dilution, followed by **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) antibody at 1/1000 2 ug/ml dilution (Green). Confocal image showing nuclear and weakly cytoplasmic staining in Neuro-2a cell line is observed. **ab195889** Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 dilution (Red). The Nuclear counterstain was DAPI (Blue).

Secondary antibody only control: Secondary antibody is **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) at 1/1000 dilution.



Flow Cytometry (Intracellular) - Anti-A2BP1/Fox1/RBFOX1 antibody [EPR23656-5] (ab254413)

Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized Mouse primary neuron cells labelling A2BP1/Fox1/RBFOX1 with ab254413 at 1/1000 dilution (Red) compared with a Rabbit monoclonal IgG (**ab172730**) (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) at 1/2000 dilution was used as the secondary antibody.

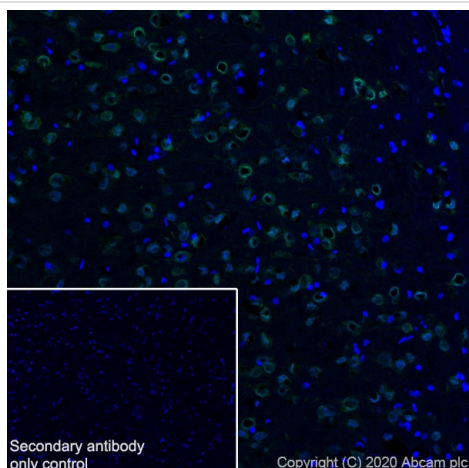


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-A2BP1/Fox1/RBFOX1 antibody [EPR23656-5] (ab254413)

Immunohistochemical analysis of paraffin-embedded Rat cerebrum tissue labeling A2BP1/Fox1/RBFOX1 with ab254413 at 1/2000 (0.239 ug/ml) dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Positive staining on rat cerebrum. The section was incubated with ab254413 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin.

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Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins

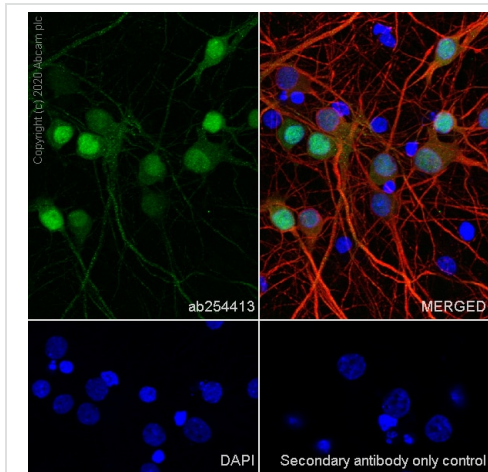


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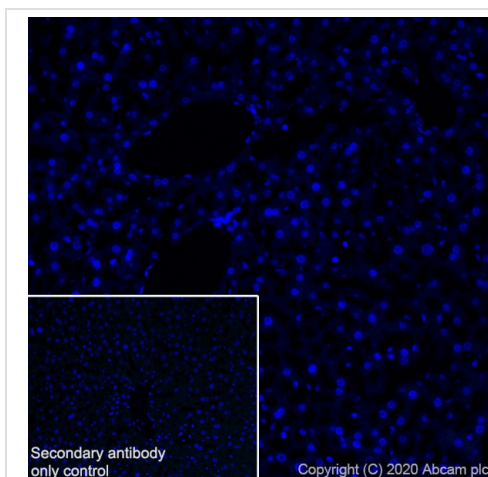
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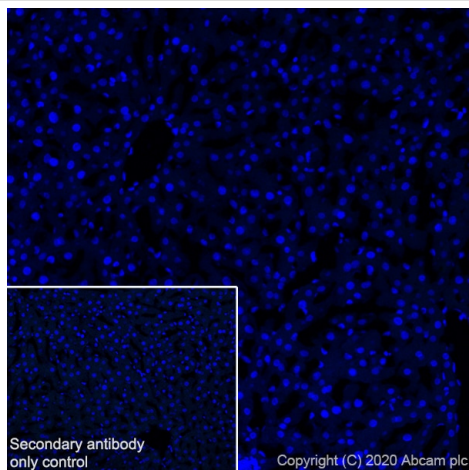


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Immunohistochemical analysis of 4% PFA-fixed, 0.2% Triton X-100 permeabilized frozen Mouse liver tissue labeling A2BP1/Fox1/RBFOX1 with ab254413 at 1/100 (4.78 ug/ml) dilution followed by **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) at 1/1000 (2 ug/ml) dilution (Green). Negative control: no staining on mouse liver (PMID: 16260614) is observed. The nuclear counterstain was DAPI (Blue).

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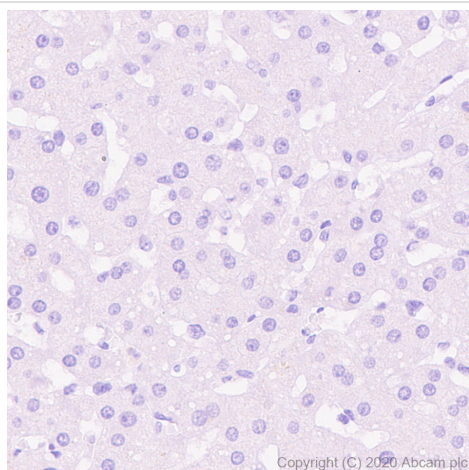


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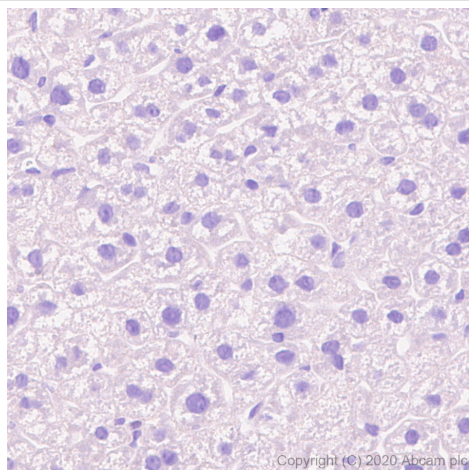


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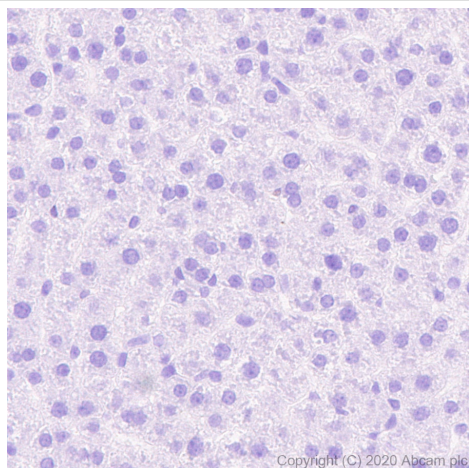


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