

Product datasheet

Anti-Otx1 antibody [EPR3347] α b92515

Recombinant **RabMAb**

[3 References](#) [10 Images](#)

Overview

Product name	Anti-Otx1 antibody [EPR3347]
Description	Rabbit monoclonal [EPR3347] to Otx1
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, IP
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Y79 whole cell lysate and Otx1 recombinant protein. IHC-P: Human retina, human retinoblastoma, human cerebral cortex, mouse retina, mouse E14.5 choroid plexus and rat E14.5 choroid plexus. IP: Y79 whole cell lysate.
General notes	<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> <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>

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. Stable for 12 months at -20°C.
Storage buffer	<p>pH: 7.20</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA</p>
Purity	Protein A purified

Clonality	Monoclonal
Clone number	EPR3347
Isotype	IgG

Applications

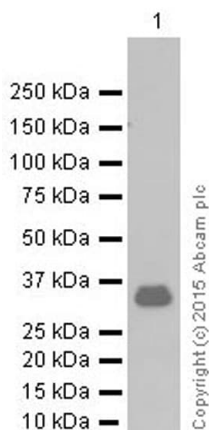
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab92515 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000 - 1/10000. Predicted molecular weight: 32 kDa.
IHC-P		1/500 - 1/1000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. We recommend 1/500 dilution for human and mouse tissues, and 1/1000 for rat tissues.
IP		1/20.

Target

Function	Probably plays a role in the development of the brain and the sense organs. Can bind to the BCD target sequence (BTS): 5'-TCTAATCCC-3'.
Tissue specificity	Expressed in brain.
Sequence similarities	Belongs to the paired homeobox family. Bicoid subfamily. Contains 1 homeobox DNA-binding domain.
Developmental stage	Embryo.
Cellular localization	Nucleus.

Images



Western blot - Anti-Otx1 antibody [EPR3347]
(ab92515)

Anti-Otx1 antibody [EPR3347] (ab92515) at 1/2500 dilution
(purified) + Y79 cell lysate at 10 µg

Secondary

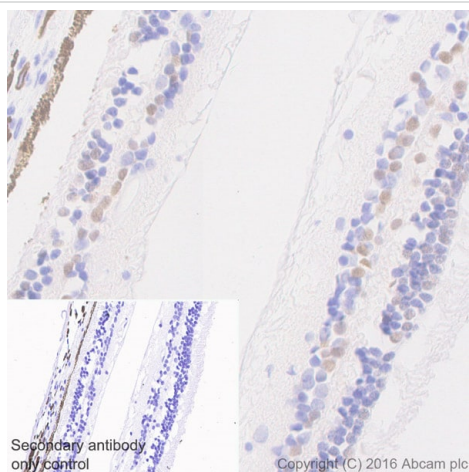
HRP goat anti-rabbit IgG (H+L) at 1/20000 dilution

Predicted band size: 32 kDa

Observed band size: 32 kDa

Blocking buffer: 5% NFDM/TBST

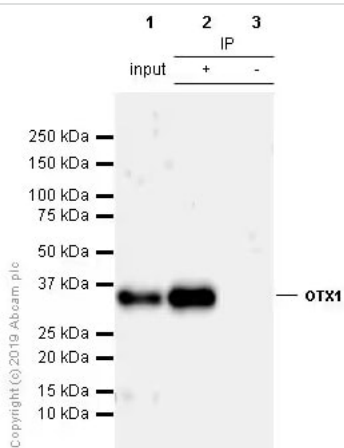
Dilution buffer: 5% NFDM/TBST



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Otx1 antibody [EPR3347]
(ab92515)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human retina tissue labelling Otx1 with purified ab92515 at a dilution 1/500. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9 ([ab93684](#)). [ab97051](#), a HRP-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/500). Counterstained with hematoxylin.

Nuclear staining on inner nuclear layer and outer nuclear layer of the human retina.



Immunoprecipitation - Anti-Otx1 antibody [EPR3347]
(ab92515)

Otx1 was immunoprecipitated from Y79 Human retinoblastoma retinoblastoma whole cell lysate with ab92515 at 1/20 dilution.

Western blot was performed from the immunoprecipitate using ab92515 at 1/500 dilution. Secondary antibody details ([ab131366](#)), was used as secondary antibody at 1/1000 dilution.

Blocking/Diluting Buffer and concentration: 5% NFDM /TBST.

Lanes 1-2 : Anti-Otx1 antibody [EPR3347] (ab92515) at 1/500 dilution (purified)

Lane 3 : Rabbit monoclonal IgG ([ab172730](#)) instead of ab92515

Lane 1 : Y79 (Human retinoblastoma retinoblastoma) whole cell

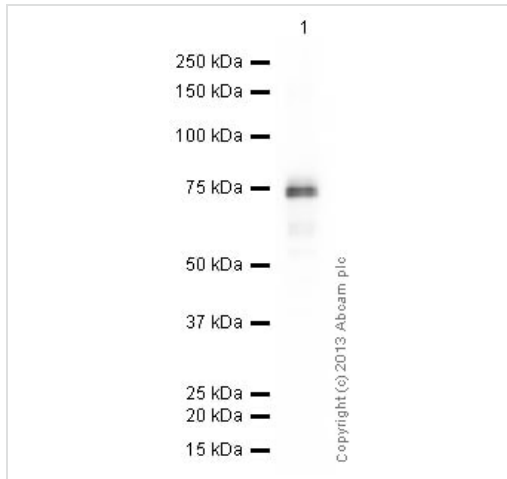
lysate

Lanes 2-3 : Y79 whole cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : VeriBlot for IP Detection Reagent (HRP) (**ab131366**) at 1/1000 dilution



Western blot - Anti-Otx1 antibody [EPR3347]
(ab92515)

Anti-Otx1 antibody [EPR3347] (ab92515) at 1 µg/ml (unpurified) +
OTX1 Recombinant Protein at 0.1 µg

Secondary

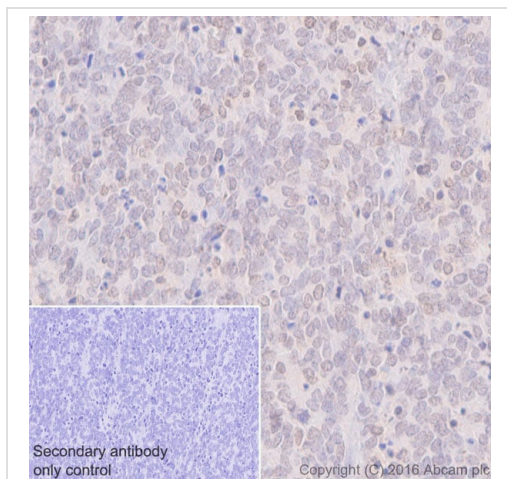
Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (**ab97080**) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 32 kDa

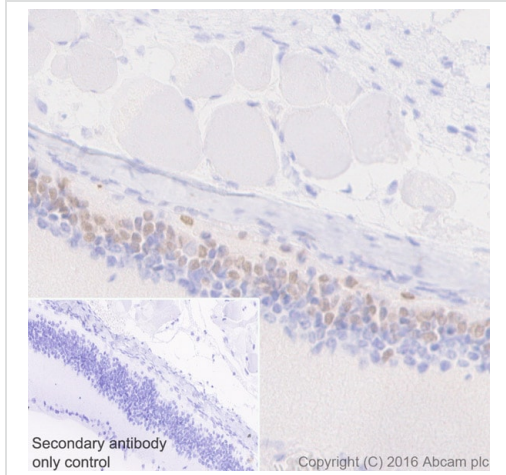
Observed band size: 75 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-
embedded sections) - Anti-Otx1 antibody [EPR3347]
(ab92515)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human retinoblastoma tissue labelling Otx1 with purified ab92515 at a dilution 1/500. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9 (**ab93684**). **ab97051**, a HRP-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/500). Counterstained with hematoxylin.

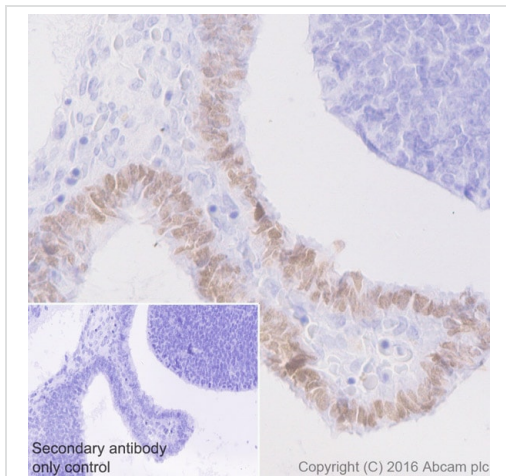
Nuclear staining on tumor cells of human retinoblastoma.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Otx1 antibody [EPR3347] (ab92515)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of mouse retina tissue labelling Otx1 with purified ab92515 at a dilution 1/500. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9 ([ab93684](#)). [ab97051](#), a HRP-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/500). Counterstained with hematoxylin.

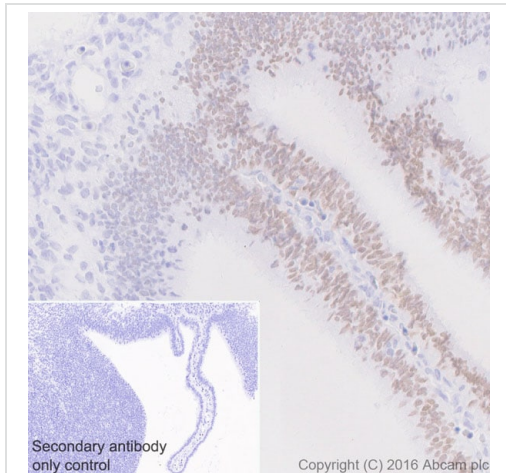
Nuclear staining on nuclear layer of the mouse retina.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Otx1 antibody [EPR3347] (ab92515)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of mouse E14.5 choroid plexus tissue labelling Otx1 with purified ab92515 at a dilution 1/500. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9 ([ab93684](#)). [ab97051](#), a HRP-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/500). Counterstained with hematoxylin.

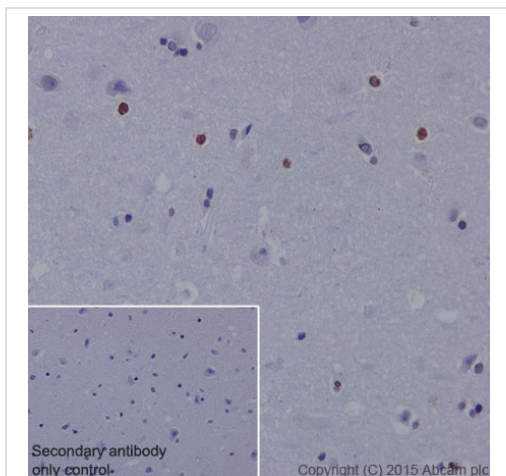
Nuclear staining on mouse E14.5 choroid plexus.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Otx1 antibody [EPR3347] (ab92515)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of rat E14.5 choroid plexus tissue labelling Otx1 with purified ab92515 at a dilution 1/1000. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9 ([ab93684](#)). [ab97051](#), a HRP-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/500). Counterstained with hematoxylin.

Nuclear staining on rat E14.5 choroid plexus.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Otx1 antibody [EPR3347] (ab92515)

Immunohistochemical staining of paraffin embedded human cerebral cortex with purified ab92515 at a working dilution of 1/250. The secondary antibody used is HRP goat anti-rabbit IgG H&L ([ab97051](#)) at 1/500. The sample is counter-stained with hematoxylin. Antigen retrieval was performed using Tris-EDTA buffer, pH 9.0. PBS was used instead of the primary antibody as the negative control, and is shown in the inset.

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-Otx1 antibody [EPR3347] (ab92515)

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