abcam

Product datasheet

Anti-TBR1 antibody [EPR8138(2)] ab183032

Recombinant RabMAb

5 Abreviews 14 References 10 Images

Overview

Product name	Anti-TBR1 antibody [EPR8138(2)]
Description	Rabbit monoclonal [EPR8138(2)] to TBR1
Host species	Rabbit
Tested applications	**Suitable for:** ICC/IF, WB, IHC-Fr, IHC-P
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	Human fetal brain lysate. ICC/IF: Mouse Neuron Cells.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: - 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	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol, 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR8138(2)
Isotype	IgG

Applications

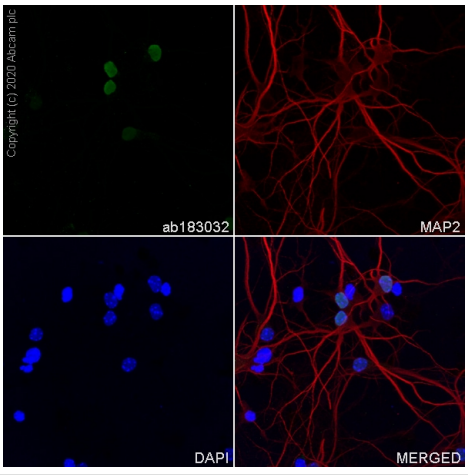
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab183032 in the following tested applications.

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

Application	Abreviews	Notes
ICC/IF	★★★★★ (2)	1/100.
WB	★★★★★ (1)	1/1000. Detects a band of approximately 74 kDa (predicted molecular weight: 74 kDa).
IHC-Fr		1/100.
IHC-P		1/80000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. We don't recommend this antibody for IHC in human. Under our experimental conditions, this antibody showed no positive staining on human fetal cerebral cortex and weak cytoplasmic staining on human glioma.

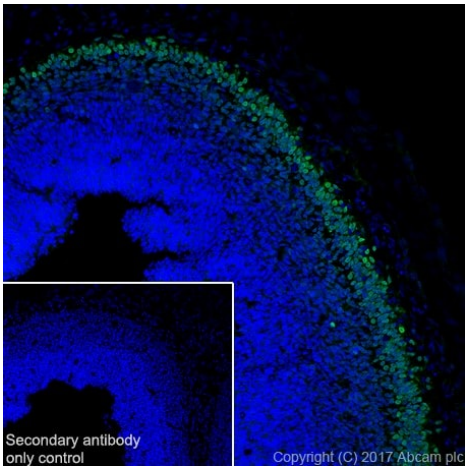
Target

Images



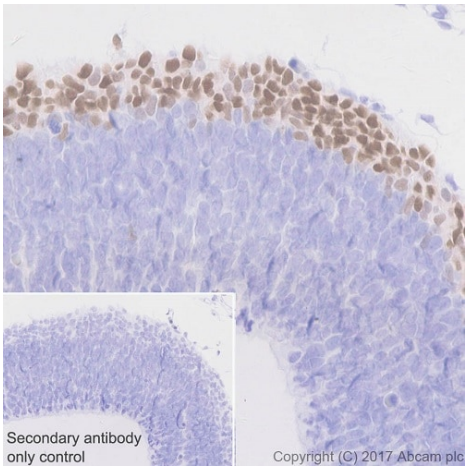
Immunocytochemistry/ Immunofluorescence - Anti-TBR1 antibody [EPR8138(2)] (ab183032)

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized mouse primary neuron cells labelling tbr1 with ab183032 at 1/100 dilution, followed by **ab150077** AlexaFluor®488 Goat anti-Rabbit secondary antibody at 1/1000 dilution (Green). Confocal scanning Z step was set as 0.3 µm followed by image processing with maximum Z projection. **ab11267** Anti-MAP2 antibody [HM-2] at 1/100 dilution and **ab150120** Goat Anti-Mouse IgG H&L (Alexa Fluor® 594 at 1/1000 (2µg/ml) was used as a MAP2 counterstain. The Nuclear counterstain was DAPI (Blue).



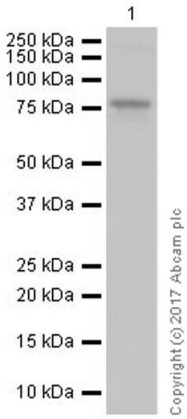
Immunohistochemistry (Frozen sections) - Anti-TBR1 antibody [EPR8138(2)] (ab183032)

ab183032 staining TBR-1 in Rat E14 cerebral cortex sections by Immunohistochemistry (IHC-Fr - frozen sections). Tissue was fixed with 4% paraformaldehyde and permeabilized with 0.2% TritonX-100. AlexaFluor®488 Goat anti-Rabbit (2 µg/ml) (**ab150077**) was used as the secondary antibody. Counter stained using DAPI. Nuclear staining on cerebral cortex of rat E14 [PMID: 27848932].



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TBR1 antibody [EPR8138(2)] (ab183032)

Immunohistochemistry of paraffin embedded Rat E14 cerebral cortex labelling TBR1 with ab183032 at 0.011µg/ml. Antigen retrieval was heat mediated using Tris/EDTA buffer, pH 9.0 (**ab93684**). Secondary antibody used was Goat Anti-Rabbit IgG H&L (HRP). Counter stained using Hematoxylin. Nuclear staining on cerebral cortex of rat E14 [PMID: 27848932].



Western blot - Anti-TBR1 antibody [EPR8138(2)] (ab183032)

Anti-TBR1 antibody [EPR8138(2)] (ab183032) at 0.9 µg/ml + Human brain lysate at 10 µg

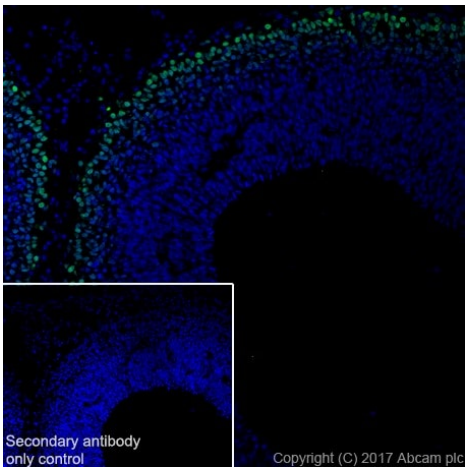
Secondary

VeriBlot for IP Detection Reagent (HRP) (**ab131366**) at 1/100000 dilution

Predicted band size: 74 kDa

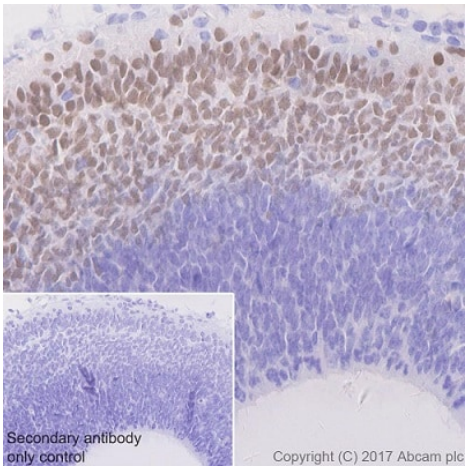
Exposure time: 30 seconds

The blocking and dilution buffer used was 5% NFDM/TBST



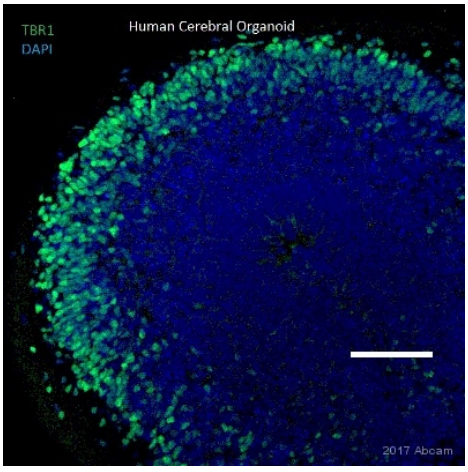
Immunohistochemistry (Frozen sections) - Anti-TBR1 antibody [EPR8138(2)] (ab183032)

ab183032 staining TBR-1 in Mouse E14 cerebral cortex sections by Immunohistochemistry (IHC-Fr - frozen sections). Tissue was fixed with 4% paraformaldehyde and permeabilized with 0.2% TritonX-100. AlexaFluor®488 Goat anti-Rabbit (2 µg/ml) (**ab150077**) was used as the secondary antibody. Counter stained using DAPI. Nuclear staining on cerebral cortex of mouse E14 [PMID: 27848932].



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TBR1 antibody [EPR8138(2)] (ab183032)

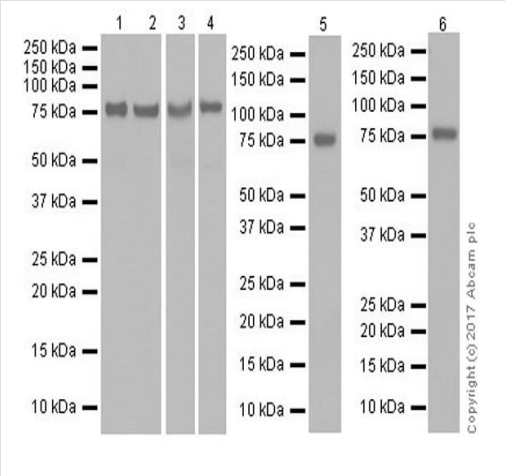
Immunohistochemistry of paraffin embedded Mouse E14 cerebral cortex labelling TBR1 with ab183032 at 0.011µg/ml. Antigen retrieval was heat mediated using Tris/EDTA buffer, pH 9.0 (**ab93684**). Secondary antibody used was Goat Anti-Rabbit IgG H&L (HRP). Counter stained using Hematoxylin. Nuclear staining on cerebral cortex of mouse E14 [PMID: 27848932].



Immunohistochemistry (Frozen sections) - Anti-TBR1 antibody [EPR8138(2)] (ab183032)

This image is courtesy of an Abreview submitted by Daniel Berg.

Ab183032 staining TBR1 in Human cerebral organoid tissue sections by Immunohistochemistry (PFA perfusion fixed frozen sections). Tissue samples were fixed by perfusion with paraformaldehyde, permeabilized with 0.1% Triton X, blocked with 5% serum for 1 hour at room temperature and antigen retrieval was by heat mediation in Dako target retrieval. The sample was incubated with primary antibody (1:300 dilution) at 4^{o}C for 12 hours. An Alexa Fluor® 488 conjugate goat polyclonal (1/200) was used as the secondary antibody.



Western blot - Anti-TBR1 antibody [EPR8138(2)] (ab183032)

All lanes : Anti-TBR1 antibody [EPR8138(2)] (ab183032) at 0.9 µg/ml

Lane 1 : Mouse P1 Cerebral cortex lysate.
Lane 2 : Mouse hippocampus lysate
Lane 3 : E18 rat brain lysate
Lane 4 : Rat P5 cerebral cortex lysate
Lane 5 : Mouse brain lysate
Lane 6 : Rat brain lysate

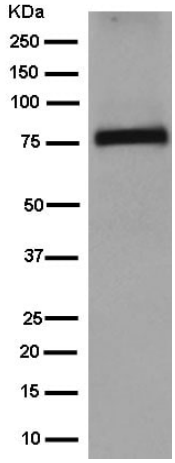
Lysates/proteins at 20 µg per lane.

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

Predicted band size: 74 kDa

The blocking and dilution buffer used was 5% NFDM/TBST.

Exposure time
Lane 1 and 2: 10 seconds;
Lane 3: 5 seconds;
Lane 4: 2 seconds;
Lane 5: 3 minutes;
Lane 6: 15 seconds



Western blot - Anti-TBR1 antibody [EPR8138(2)] (ab183032)

Anti-TBR1 antibody [EPR8138(2)] (ab183032) at 1/10000 dilution + Human fetal brain lysate at 20 µg

Secondary

Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugate at 1/1000 dilution

Predicted band size: 74 kDa

Anti-TBR1 antibody [EPR8138(2)] (ab183032)

- 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.com/abpromise** or contact our technical team.

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