

Anti-TBR1 antibody ab31940

★★★★★ [32 Abreviews](#) [425 References](#) [5 Images](#)

Overview

Product name	Anti-TBR1 antibody
Description	Rabbit polyclonal to TBR1
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</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 or -80°C. Avoid freeze / thaw cycle.
Storage buffer	<p>pH: 7.40</p> <p>Preservative: 0.02% Sodium azide</p> <p>Constituent: PBS</p> <p>Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.</p>
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Applications

The Abpromise guarantee

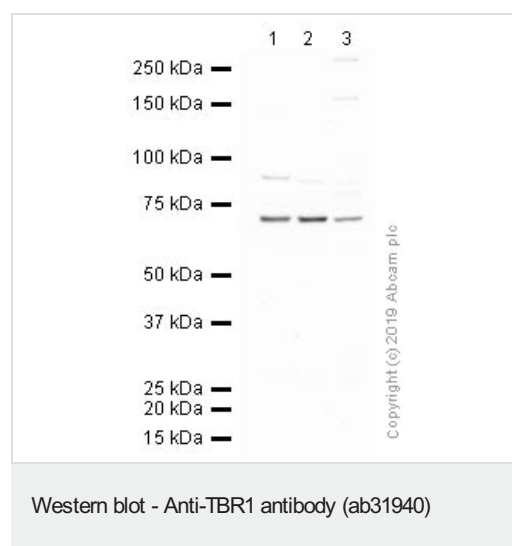
Our **Abpromise guarantee** covers the use of ab31940 in the following tested applications.

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

Application	Abreviews	Notes
WB	★★★★☆ (3)	Use a concentration of 1 µg/ml. Detects a band of approximately 74 kDa (predicted molecular weight: 74 kDa).
IHC-P	★★★★★ (6)	1/2000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Target

Images



All lanes : Anti-TBR1 antibody (ab31940) at 1 µg/ml

Lane 1 : Mouse hippocampus tissue lysate

Lane 2 : Rat hippocampus tissue lysate

Lane 3 : Human hippocampus tissue lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) at 1/50000 dilution

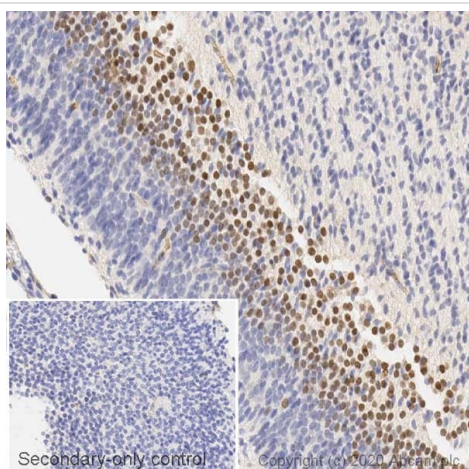
Predicted band size: 74 kDa

Observed band size: 74 kDa

Exposure time: 4 minutes

Gel type: MOPS

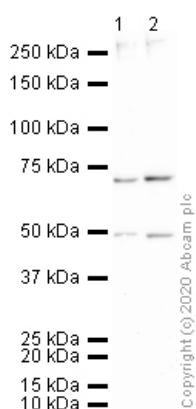
Blocking buffer: 3% milk block



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TBR1 antibody (ab31940)

IHC image of TBR1 staining in a section of formalin-fixed paraffin-embedded normal E17 mouse brain performed on a Leica BOND™ system using the standard protocol. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20mins. The section was then incubated with ab31940, 1/2000 dilution, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX. The inset secondary-only control image is taken from an identical assay without primary antibody.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times



Western blot - Anti-TBR1 antibody (ab31940)

All lanes : Anti-TBR1 antibody (ab31940) at 1 µg/ml

Lane 1 : Mouse hippocampus whole cell lysate

Lane 2 : Rat hippocampus whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) preadsorbed at 1/50000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

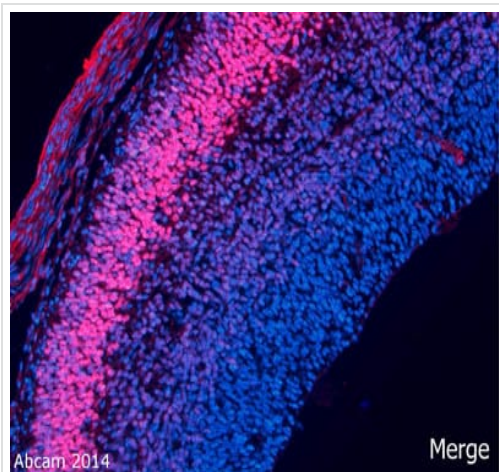
Predicted band size: 74 kDa

Observed band size: 74 kDa

Additional bands at: 50 kDa (possible non-specific binding)

Exposure time: 4 minutes

This blot was produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 3% milk before being incubated with ab31940 overnight at 4°C. Antibody binding was detected using an anti-rabbit antibody conjugated to HRP, and visualised using ECL development solution [ab133406](#).



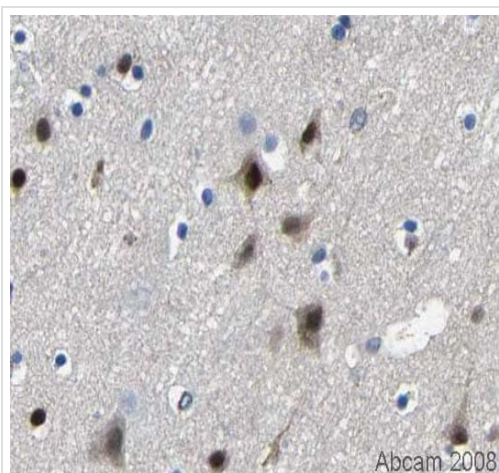
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TBR1 antibody (ab31940)

This image is courtesy of an anonymous abreview.

IHC-P image of TBR1 staining on mouse brain sections using ab31940 at a 1:200 dilution.

The sections were deparaffinized and subjected to heat mediated antigen retrieval. The sections were blocked using 7.5% goat serum for 2 hours at room temperature. ab31940 was diluted 1:200 using blocking buffer and incubated with the sections for 16 hours at 4°C. The secondary antibody used was Goat polyclonal to anti-rabbit conjugated to Alexa Fluor® 594 (1:400).

DAPI was used to counterstain nuclei.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TBR1 antibody (ab31940)

Image courtesy of Human Protein Atlas

(Image courtesy of [Human Protein Atlas](#))

ab31940 staining TBR1 protein in normal human cerebral cortex. Brown color indicates presence of protein, blue color shows cell nuclei. Paraffin embedded human cerebral cortex tissue was incubated with ab31940 at a 1/25 dilution for 30 minutes at room temperature. Antigen retrieval was performed by heat induction in citrate buffer pH 6.

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