


Anti-FOXG1 antibody ab18259

★★★★☆ [12 Abreviews](#) [126 References](#) [画像数 4](#)

製品の概要

製品名	Anti-FOXG1 antibody
製品の詳細	Rabbit polyclonal to FOXG1
由来種	Rabbit
特異性	Replenishment batches of our polyclonal antibody, ab18259 are tested in IHC-P. Previous batches were additionally validated in WB. This application is still expected to work and is covered by our Abpromise guarantee. You may also be interested in our alternative recombinant antibody, ab196868 .
アプリケーション	適用あり: WB, IHC-P
種交差性	交差種: Mouse, Rat, Human 交差が予測される動物種: Xenopus laevis 
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
特記事項	<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>

製品の特性

製品の状態	Liquid
保存方法	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.
バッファー	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS

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.

精製度	Immunogen affinity purified
ポリ/モノ	ポリクローナル
アイソタイプ	IgG

アプリケーション

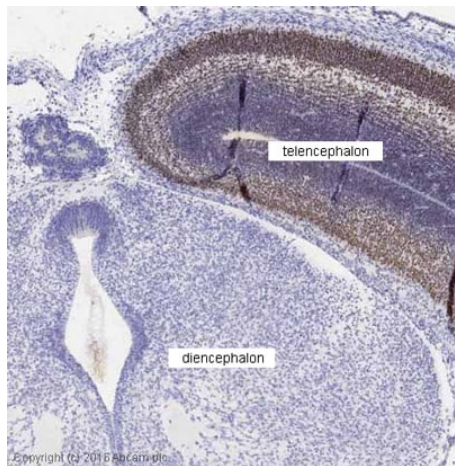
The Abpromise guarantee **Abpromise保証は、次のテスト済みアプリケーションにおけるab18259の使用に適用されず**
 アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB	★★★★☆ (2)	Use a concentration of 1 µg/ml. Detects a band of approximately 50 kDa (predicted molecular weight: 50 kDa).
IHC-P	★★★★★ (2)	Use a concentration of 0.5 - 1 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

ターゲット情報

機能	Transcription repression factor which plays an important role in the establishment of the regional subdivision of the developing brain and in the development of the telencephalon.
組織特異性	Expression is restricted to the neurons of the developing telencephalon.
関連疾患	Defects in FOXP1 are the cause of congenital variant of Rett syndrome (RTTCV) [MIM:613454]. RTTCV is a severe neurodevelopmental disorder with features of classic Rett syndrome but earlier onset in the first months of life. Clinical features include progressive microcephaly, hypotonia, irresponsiveness and irritability in the neonatal period, mental retardation, psychomotor regression and stereotypical movements.
配列類似性	Contains 1 fork-head DNA-binding domain.
細胞内局在	Nucleus.

画像

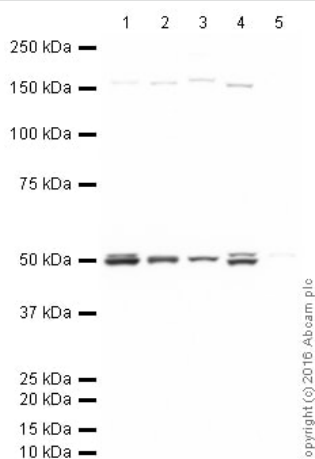


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FOXG1 antibody - ChIP Grade (ab18259)

IHC image of FoxG1 staining in mouse brain E14 formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol B. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab18259, 0.5 µg/ml, for 15 mins at room temperature. A goat anti-rabbit biotinylated secondary antibody was used to detect the primary, and visualized using an HRP conjugated ABC system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

Staining revealed in telencephalon (but not diencephalon) as expected.

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-FOXG1 antibody - ChIP Grade (ab18259)

All lanes : Anti-FOXG1 antibody (ab18259) at 1 µg/ml

Lane 1 : Human brain tissue lysate - total protein (**ab29466**)

Lane 2 : Brain (Mouse) Tissue Lysate

Lane 3 : E10 Mouse Embryo Brain Tissue Lysate

Lane 4 : Brain (Rat) Tissue Lysate

Lane 5 : Human spleen tissue lysate - total protein (negative control)

Lysates/proteins at 10 µg per lane.

Secondary

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

Developed using the ECL technique.

Performed under reducing conditions.

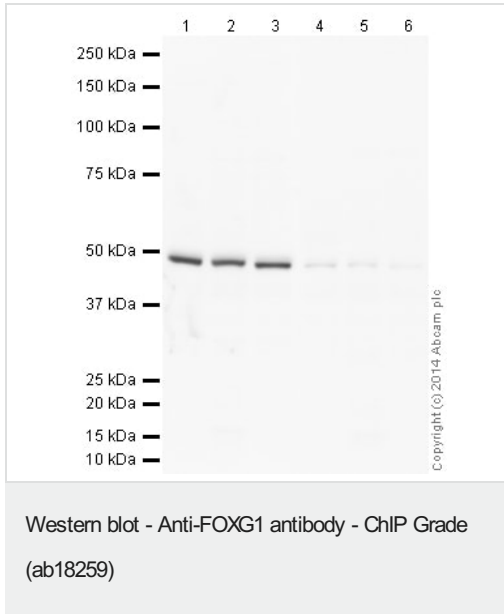
Predicted band size: 50 kDa

Observed band size: 50 kDa

Additional bands at: 155 kDa, 52 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 3 minutes

This blot was produced using a 4-12% Bis-tris gel under the MES buffer system. The gel was run at 200V for 35 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 ab18259 overnight at 4°C. Antibody binding was detected using an anti-rabbit antibody conjugated to HRP, and visualised using ECL development solution **ab133406**.



All lanes : Anti-FOXG1 antibody (ab18259) at 1 µg/ml

Lane 1 : Human brain tissue lysate - total protein (**ab29466**)

Lane 2 : Brain (Mouse) Tissue Lysate

Lane 3 : Brain (Rat) Tissue Lysate

Lane 4 : Human brain tissue lysate - total protein (**ab29466**) with Human FOXG1 peptide (**ab19644**) at 1 µg/ml

Lane 5 : Brain (Mouse) Tissue Lysate with Human FOXG1 peptide (**ab19644**) at 1 µg/ml

Lane 6 : Brain (Rat) Tissue Lysate with Human FOXG1 peptide (**ab19644**) at 1 µg/ml

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/10000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 50 kDa

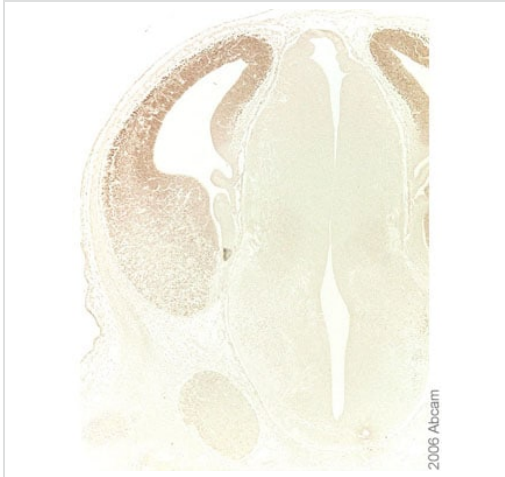
Observed band size: 50 kDa

Exposure time: 1 minute

ab18259 detects a band of ~50kDa in brain lysates. This band is blocked by addition of the immunizing peptide **ab19644** which suggests that is specific for FOXG1.

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 5% Bovine Serum Albumin before being incubated with ab18259 overnight at 4°C. Antibody binding was detected using an **anti-rabbit HRP** secondary antibody, and visualised using ECL development solution.



ab18259 staining Foxg1 (1/50) in the telencephalon (but not the diencephalon) as expected. DAB-immunohistochemistry was performed on embryonic (E13.5) mouse brain (coronal paraffin-embedded sections) after microwave treatment with 10mM sodium citrate.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FOXG1 antibody (ab18259)

This image is courtesy of Vassiliki Fotaki, University of Edinburgh

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