

## Product datasheet

# Anti-Aquaporin 4 antibody ab46182

★★★★☆ 17 Abreviews 11 References 画像数 4

### 製品の概要

製品名	Anti-Aquaporin 4 antibody
製品の詳細	Rabbit polyclonal to Aquaporin 4
由来種	Rabbit
特異性	ab46182 is not suitable for staining Aquaporin 4 in IHC using paraffin embedded sections but some customers have successfully used the antibody in frozen sections (see submitted Abreviews). Please contact Scientific Support if you need further help.
アプリケーション	<b>適用あり:</b> WB, ICC/IF, IHC-FrFI, ICC
種交差性	<b>交差種:</b> Mouse, Rat, Human, Pig <b>交差が予測される動物種:</b> Sheep, Chicken, Cow 
免疫原	Synthetic peptide conjugated to KLH derived from within residues 50 - 150 of Human Aquaporin 4. Immunogen の所有権に関して (Peptide available as <a href="#">ab46181</a> .)
ポジティブ・コントロール	This antibody gave a positive signal in the following Tissue Lysates: Brain (Human), Heart (Human) and Brain (Rat).

### 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	Preservative: 0.02% Sodium Azide Constituents: 1% BSA, PBS, pH 7.4
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

Our [Abpromise guarantee](#) covers the use of **ab46182** in the following tested applications.

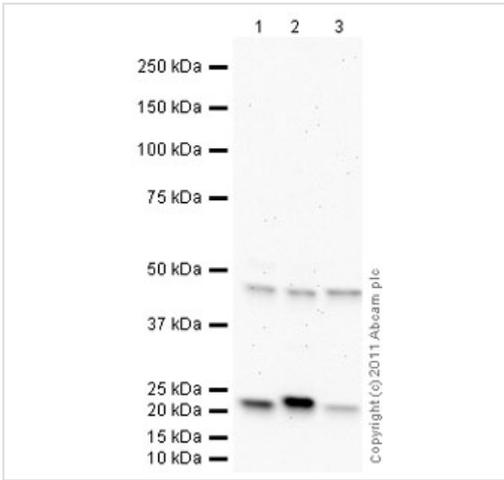
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	Abreviews	特記事項
WB	★★★★☆	Use a concentration of 1 µg/ml. Detects a band of approximately 48 kDa (predicted molecular weight: 35 kDa). Can be blocked with <a href="#">Human Aquaporin 4 peptide (ab46181)</a> . Abcam recommends using milk as the blocking agent.
ICC/IF	★★★★☆	Use at an assay dependent concentration.
IHC-FrFI	★★★★☆	Use at an assay dependent concentration.
ICC	★★★★☆	Use at an assay dependent concentration.

## ターゲット情報

機能	Forms a water-specific channel. Osmoreceptor which regulates body water balance and mediates water flow within the central nervous system.
組織特異性	Brain - muscle >> heart, kidney, lung, and trachea.
配列類似性	Belongs to the MIP/aquaporin (TC 1.A.8) family.
ドメイン	Aquaporins contain two tandem repeats each containing three membrane-spanning domains and a pore-forming loop with the signature motif Asn-Pro-Ala (NPA).
翻訳後修飾	Phosphorylation by PKC at Ser-180 reduces conductance by 50%. Phosphorylation by PKG at Ser-111 in response to glutamats increases conductance by 40%.
細胞内局在	Membrane.

## 画像



Western blot - Anti-Aquaporin 4 antibody (ab46182)

**All lanes :** Anti-Aquaporin 4 antibody (ab46182) at 1 µg/ml (blocked with 3% milk)

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

**Lane 2 :** Brain (Rat) Tissue Lysate

**Lane 3 :** Human heart tissue lysate - total protein (ab29431)

Lysates/proteins at 10 µg per lane.

### Secondary

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

Developed using the ECL technique.

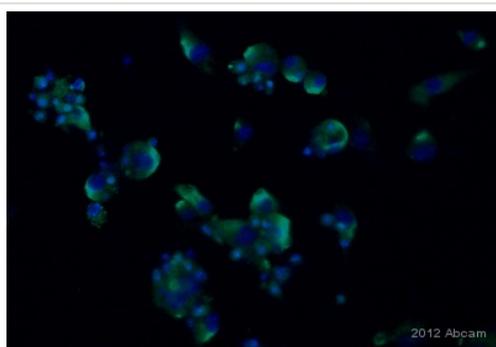
Performed under reducing conditions.

**Predicted band size:** 35 kDa

**Observed band size:** 48 kDa

**Additional bands at:** 22 kDa. We are unsure as to the identity of these extra bands.

**Exposure time:** 12 minutes



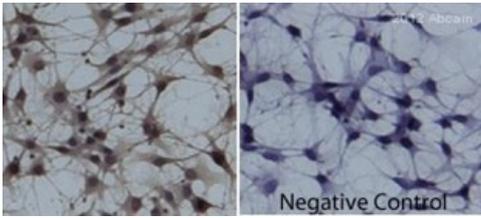
Immunocytochemistry/ Immunofluorescence - Anti-Aquaporin 4 antibody (ab46182)

This image is courtesy of an anonymous Abreview

ab46182 staining Aquaporin 4 in mouse RAW 264.7 cells by Immunocytochemistry/ Immunofluorescence.

Cells were fixed with paraformaldehyde and blocked with 10% serum for 20 minutes at 24°C. Samples were incubated with primary antibody (1/100 in PBS) for 16 hours at 4°C.

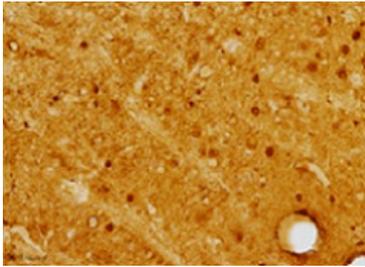
An Alexa Fluor® 488-conjugated goat anti-rabbit polyclonal (1/1000) was used as the secondary antibody.



Immunocytochemistry - Anti-Aquaporin 4 antibody (ab46182)

This image is courtesy of an anonymous Abreview.

Immunocytochemical analysis of 33B cells originating from Rat nervous tissue oligodendroglioma, labelling AQP4 with ab46182 diluted 1/100. Cells were PFA fixed. Hematoxyling used to counterstained. Negative control given were ab46182 was not included.



Immunohistochemistry free floating - Anti-Aquaporin 4 antibody (ab46182)

This image is courtesy of an Abreview submitted by Audrey Lafrenaye.

Immunohistochemical analysis of Pig brain tissue labelling Aquaporin 4 with ab46182 at 1/100. Tissue fixed by perfusion, antigen retrieval performed by microwaving in citric acid buffer. DAB staining.

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