

## Product datasheet

# Anti-Hippocalcin antibody ab24560

★★★★★ 1 Abreviews 3 References 画像数 6

### 製品の概要

製品名	Anti-Hippocalcin antibody
製品の詳細	Rabbit polyclonal to Hippocalcin
由来種	Rabbit
アプリケーション	適用あり: WB, IHC-P, IHC (PFA fixed), ICC/IF, IHC-Fr, IP
種交差性	交差種: Mouse, Rat, Human, Zebrafish 交差が予測される動物種: Chicken, Cow 
免疫原	Synthetic peptide conjugated to KLH derived from within residues 150 to the C-terminus of Rat Hippocalcin. Immunogen の所有権に関して (Peptide available as <a href="#">ab25848</a> .)
ポジティブ・コントロール	This antibody gave a positive signal in the following tissue lysates: Mouse Brain; Mouse Brain Day 0; Human Cerebellum. This antibody gave a positive signal in the following Formaldehyde fixed cell line: SKNSH.

### 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 **ab24560** in the following tested applications.

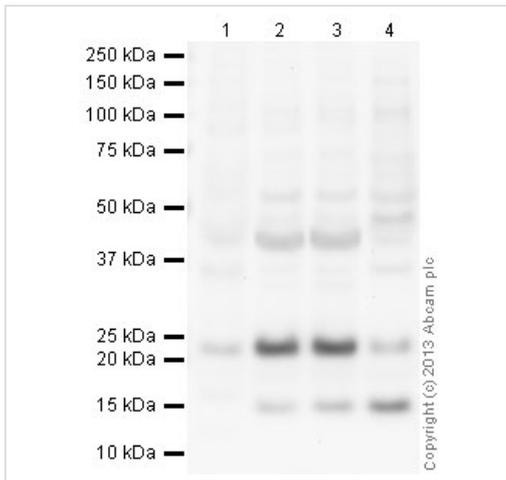
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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 23 kDa (predicted molecular weight: 23 kDa).
IHC-P		1/350. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
IHC (PFA fixed)		Use a concentration of 0.2 µg/ml.
ICC/IF		Use a concentration of 5 µg/ml.
IHC-Fr	★★★★★	Use at an assay dependent concentration.
IP		Use at an assay dependent concentration.

### ターゲット情報

機能	May be involved in the calcium-dependent regulation of rhodopsin phosphorylation. Binds two calcium ions.
組織特異性	Brain specific.
配列類似性	Belongs to the recoverin family. Contains 4 EF-hand domains.
翻訳後修飾	Myristoylation facilitates interaction with membranes.

### 画像



Western blot - Anti-Hippocalcin antibody (ab24560)

**All lanes :** Anti-Hippocalcin antibody (ab24560) at 1 µg/ml

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

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

**Lane 3 :** Brain (Mouse) Tissue Lysate

**Lane 4 :** Mouse brain tissue lysate - total protein (0 days) (ab7188)

Lysates/proteins at 20 µg per lane.

### Secondary

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

Developed using the ECL technique.

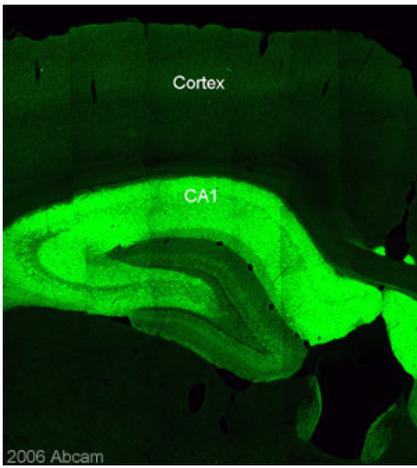
Performed under reducing conditions.

**Predicted band size:** 23 kDa

**Observed band size:** 23 kDa

**Additional bands at:** 14 kDa (possible cleavage fragment), 42 kDa, 52 kDa. We are unsure as to the identity of these extra bands.

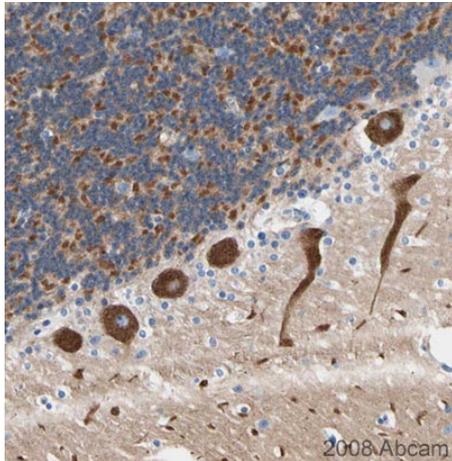
**Exposure time:** 4 minutes



Immunohistochemistry (PFA fixed) - Anti-Hippocalcin antibody (ab24560)

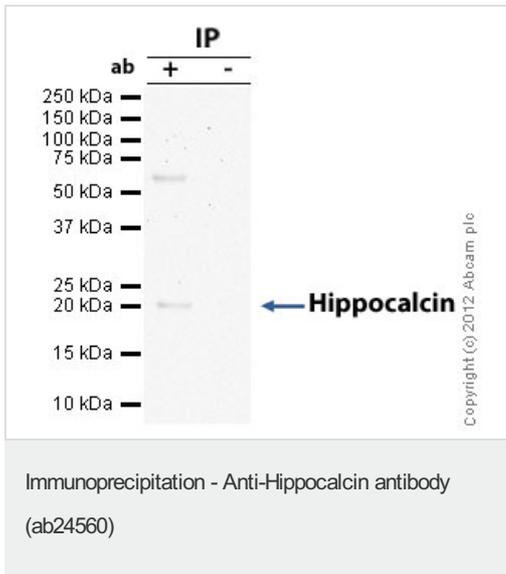
This image is courtesy of Sophie Pezet, King's College London, United Kingdom

Immuofluorescent staining for Hippocalcin in the rat hippocampus using Rabbit polyclonal to Hippocalcin (ab24560). This figure is a montage of pictures acquired with a X10 objective and shows expected abundance of staining in parts of the hippocampus such as the CA1 and CA3 and an absence of staining (as expected) in the cortex and the corpus callosum. ab24560 was used at 1/1000 (0.2µg/ml) incubated overnight at room temperature. Secondary antibody used was anti-rabbit Alexa Fluor 488 at 1/1000 incubated for 2 hours at room temperature. Rat brain tissue was perfusion fixed with 4% PFA followed by overnight post-fixation in the same fixative, cryoprotected in 20% sucrose and frozen in OCT. 30µm coronal sections were cut on a cyrostat and immunohistochemistry performed by the 'free floating' technique.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Hippocalcin antibody (ab24560)

Image courtesy of [Human Protein Atlas](#) ab24560 staining Hippocalcin in human cerebellum. Paraffin embedded tissue was cut into 4µm sections and incubated with ab24560 (1/350 dilution) for 30 minutes at room temperature. Antigen retrieval was performed by heat induction in citrate buffer pH 6. ab24560 was tested in a tissue microarray (TMA) containing a wide range of normal and cancer tissues as well as a cell microarray consisting of a range of commonly used, well characterised human cell lines. Further results for this antibody can be found at [www.proteinatlas.org](http://www.proteinatlas.org)



Hippocalcin was immunoprecipitated using 0.5mg Mouse Brain whole tissue lysate, 5µg of Rabbit polyclonal to Hippocalcin and 50µl of protein G magnetic beads (+). No antibody was added to the control (-).

The antibody was incubated under agitation with Protein G beads for 10min, Mouse Brain whole tissue lysate lysate diluted in RIPA buffer was added to each sample and incubated for a further 10min under agitation.

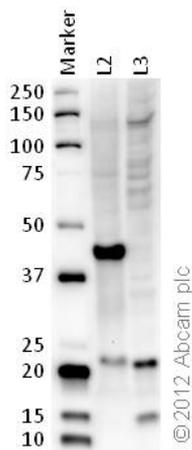
Proteins were eluted by addition of 40µl SDS loading buffer and incubated for 10min at 70°C; 10µl of each sample was separated on a SDS PAGE gel, transferred to a nitrocellulose membrane, blocked with 5% BSA and probed with ab24560.

Secondary: Clean blot (HRP conjugate) at 1/1000 dilution.

Band: 23kDa: Hippocalcin; non specific - 60kDa: We are unsure as to the identity of this extra band.



ICC/IF image of ab24560 stained SKNSH cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody ab24560 at 5µg/ml overnight at +4°C. The secondary antibody (green) was DyLight® 488 goat anti- rabbit (ab96899) IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.



Western blot - Anti-Hippocalcin antibody (ab24560)

**All lanes :** Anti-Hippocalcin antibody (ab24560) at 1 µg/ml

**Lane 1 :** Marker

**Lane 2 :** Zebrafish brain homogenate (20ug)

**Lane 3 :** Mouse brain homogenate (20ug)

**Secondary**

**All lanes :** Goat polyclonal to Rabbit IgG – H&L – Pre-Adsorbed (HRP) at 1/6000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

**Predicted band size:** 23 kDa

**Observed band size:** 23 kDa

**Exposure time:** 1 minute

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

**Our Abpromise to you: Quality guaranteed and expert technical support**

- Replacement or refund for products not performing as stated on the datasheet
- 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.co.jp/abpromise> or contact our technical team.

**Terms and conditions**

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors