

## Product datasheet

### Anti-Calretinin antibody [EP1798] ab92341

Recombinant RabMAb

★★★★★ 5 Abreviews 16 References 9 Images

#### Overview

Product name	Anti-Calretinin antibody [EP1798]
Description	Rabbit monoclonal [EP1798] to Calretinin
Host species	Rabbit
Tested applications	<b>Suitable for:</b> Flow Cyt (Intra), WB, IHC-P, ICC/IF
Species reactivity	<b>Reacts with:</b> Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Mouse brain, Human brain and Rat brain tissue lysates. Flow Cyt (Intra): SH-SY5Y cells. IHC-P: Mouse cerebrum, Rat cerebrum, Human cerebrum, and Human mesothelioma tissues. ICC/IF: SH-SY5Y cells.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</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 long term. Avoid freeze / thaw cycle.
Storage buffer	<p>pH: 7.20</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 0.05% BSA, 40% Glycerol (glycerin, glycerine), 59% PBS</p>
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EP1798

Isotype

IgG

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab92341 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
Flow Cyt (Intra)		1/20. <b>ab172730</b> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody. <b>For unpurified use at 1/100.</b>
WB		1/1000. Detects a band of approximately 29 kDa (predicted molecular weight: 29 kDa).
IHC-P	★★★★★ (3)	1/4000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. <b>For unpurified use at 1/100 - 1/250.</b>
ICC/IF		1/100 - 1/250.

## Target

### Function

Calretinin is a calcium-binding protein which is abundant in auditory neurons.

### Tissue specificity

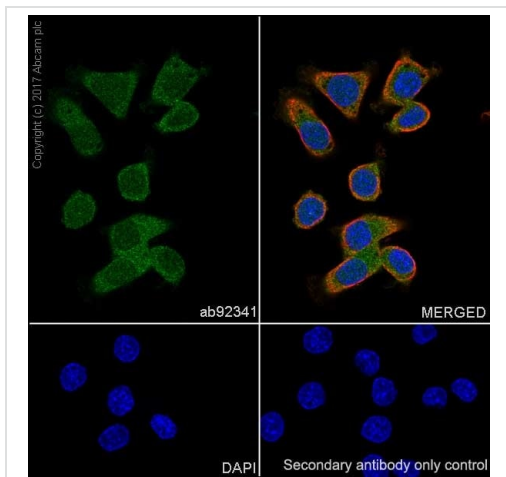
Brain.

### Sequence similarities

Belongs to the calbindin family.

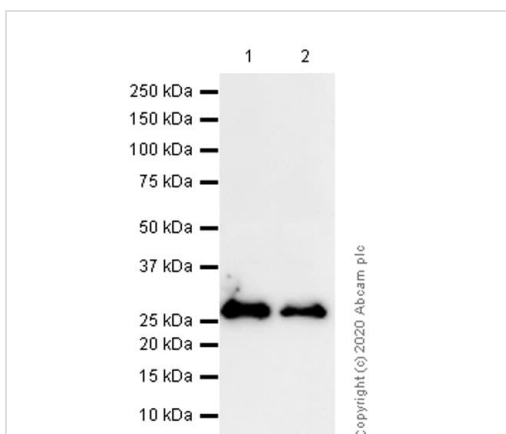
Contains 6 EF-hand domains.

## Images



Immunocytochemistry/ Immunofluorescence - Anti-Calretinin antibody [EP1798] (ab92341)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% tritonX-100 permeabilised SH-SY5Y (human neuroblastoma epithelial cell line) cells labelling Calretinin with ab92341 at 1/500 dilution, followed by AlexaFluor®488 Goat anti-Rabbit ([ab150077](#)) secondary antibody at 1/1000 dilution (Green). Confocal image showing cytoplasmic and nuclear staining on SH-SY5Y cell line is observed. Counterstained with DAPI.



Western blot - Anti-Calretinin antibody [EP1798] (ab92341)

**All lanes :** Anti-Calretinin antibody [EP1798] (ab92341) at 1/1000 dilution (Purified)

**Lane 1 :** Mouse brain lysate

**Lane 2 :** Rat brain lysate

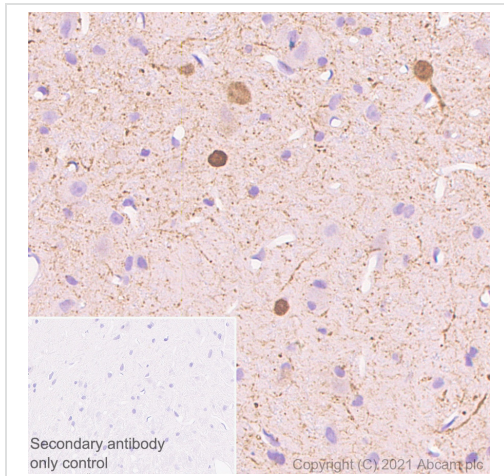
Lysates/proteins at 20 µg per lane.

#### Secondary

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

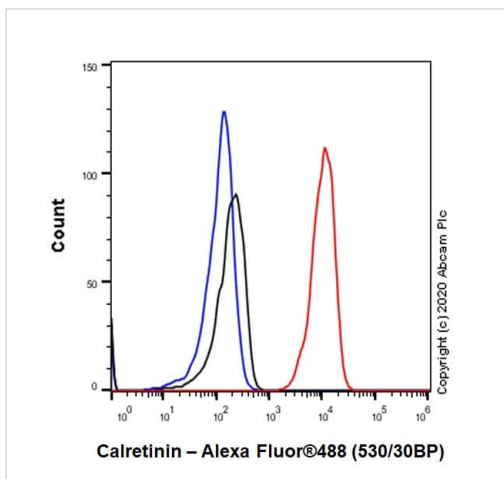
**Predicted band size:** 29 kDa

**Observed band size:** 29 kDa



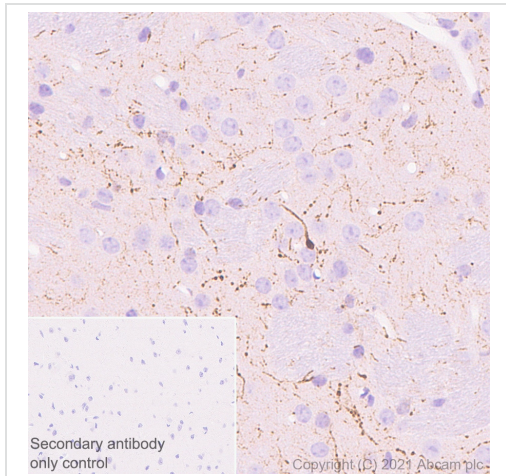
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Calretinin antibody [EP1798] (ab92341)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of rat cerebrum tissue sections labeling Calretinin with purified ab92341 at 1:4000 (0.034 µg/ml). Heat mediated antigen retrieval was performed using Bond™ Epitope Retrieval Solution 1 (pH 6.0). Tissue was counterstained with Hematoxylin. Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) was used at 1:0 dilution. PBS instead of the primary antibody was used as the negative control. The immunostaining was performed on a Leica Biosystems BOND® RX instrument.



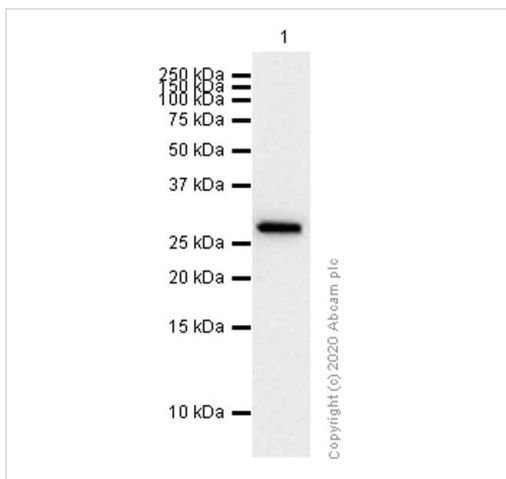
Flow Cytometry (Intracellular) - Anti-Calretinin antibody [EP1798] (ab92341)

Flow Cytometry analysis of SH-SY5Y (Human neuroblastoma epithelial cell) cells labelling Calretinin with purified ab92341 at 1/20 dilution (10 µg/ml) (red). Cells were fixed with 4% Paraformaldehyde and permeabilised with 90% Methanol. A Goat anti-rabbit IgG (Alexa Fluor® 488) (**ab150081**) secondary antibody was used at 1/2000. Isotype control - Rabbit monoclonal IgG (black). Unlabelled control - Cell without incubation with primary antibody and secondary antibody (blue).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Calretinin antibody [EP1798] (ab92341)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of mouse cerebrum tissue sections labeling Calretinin with purified ab92341 at 1:4000 (0.034 µg/ml). Heat mediated antigen retrieval was performed using Bond™ Epitope Retrieval Solution 1 (pH 6.0). Tissue was counterstained with Hematoxylin. Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) was used at 1:0 dilution. PBS instead of the primary antibody was used as the negative control. The immunostaining was performed on a Leica Biosystems BOND® RX instrument.



Western blot - Anti-Calretinin antibody [EP1798] (ab92341)

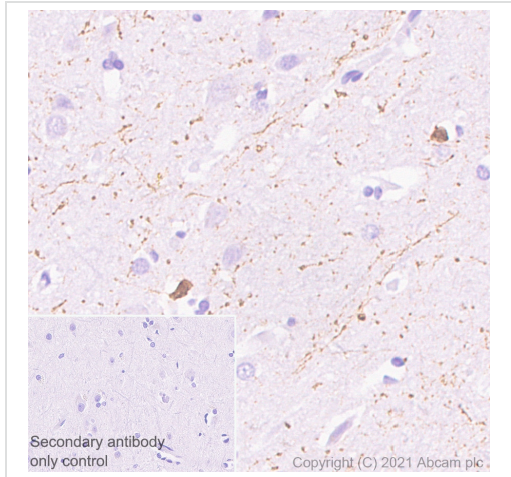
Anti-Calretinin antibody [EP1798] (ab92341) at 1/1000 dilution (Purified) + Human brain lysate at 15 µg

#### Secondary

Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

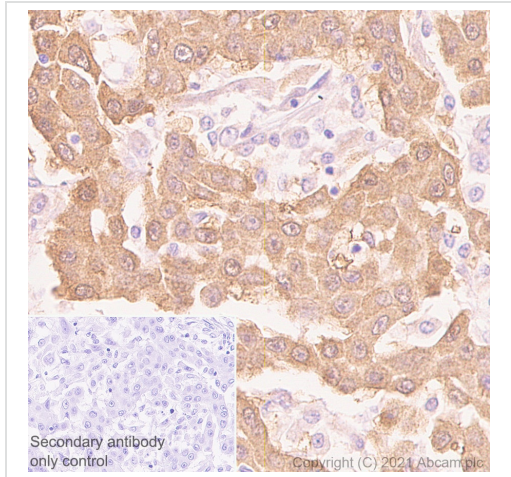
**Predicted band size:** 29 kDa

**Observed band size:** 29 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Calretinin antibody [EP1798] (ab92341)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human cerebrum tissue sections labeling Calretinin with purified ab92341 at 1:4000 (0.034 µg/ml). Heat mediated antigen retrieval was performed using Bond™ Epitope Retrieval Solution 1 (pH 6.0). Tissue was counterstained with Hematoxylin. Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) secondary antibody was used at 1:0 dilution. PBS instead of the primary antibody was used as the negative control. The immunostaining was performed on a Leica Biosystems BOND® RX instrument.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Calretinin antibody [EP1798] (ab92341)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human mesothelioma tissue sections labeling Calretinin with purified ab92341 at 1:4000 (0.034 µg/ml). Heat mediated antigen retrieval was performed using Bond™ Epitope Retrieval Solution 1 (pH 6.0). Tissue was counterstained with Hematoxylin. Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) was used at 1:0 dilution. PBS instead of the primary antibody was used as the negative control. The immunostaining was performed on a Leica Biosystems BOND® RX instrument.

Why choose a recombinant antibody?

Research with confidence

Consistent and reproducible results

Long-term and scalable supply

Recombinant technology

Success from the first experiment

Confirmed specificity

Ethical standards compliant

Animal-free production

Anti-Calretinin antibody [EP1798] (ab92341)

6

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

### **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.com/abpromise> or contact our technical team.

### **Terms and conditions**

---

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