

## Product datasheet

### Anti-BRN3A antibody [EP1972Y] ab81213

Recombinant RabMAb

★★★★☆ **6 Abreviews** **16 References** [6 Images](#)

#### Overview

<b>Product name</b>	Anti-BRN3A antibody [EP1972Y]
<b>Description</b>	Rabbit monoclonal [EP1972Y] to BRN3A
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt (Intra), WB <b>Unsuitable for:</b> ICC/IF or IP
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Synthetic peptide within Human BRN3A aa 300-400 (C terminal). The exact sequence is proprietary.
<b>Positive control</b>	WB: Human brain lysate; SW480; Mouse cerebellum; Rat brain; Rat spinal cord. ICC/IF: HeLa cells. Flow Cyt (intra): SH-SY5Y cells.
<b>General notes</b>	<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

<b>Form</b>	Liquid
<b>Storage instructions</b>	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.
<b>Storage buffer</b>	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EP1972Y

Isotype

IgG

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab81213 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)		1/100. <b>ab172730</b> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody. For unpurified use at 1/90.
WB	★★★★★ (1)	1/2000. Predicted molecular weight: 43 kDa. <b>For unpurified use at 1/500 - 1/1000.</b>

### Application notes

Is unsuitable for ICC/IF or IP.

## Target

### Function

Probable transcription factor which may play a role in the regulation of specific gene expression within a subset of neuronal lineages. May play a role in determining or maintaining the identities of a small subset of visual system neurons.

### Tissue specificity

Brain. Seems to be specific to the retina. Present in the developing brain, spinal cord and eye.

### Sequence similarities

Belongs to the POU transcription factor family. Class-4 subfamily.  
Contains 1 homeobox DNA-binding domain.  
Contains 1 POU-specific domain.

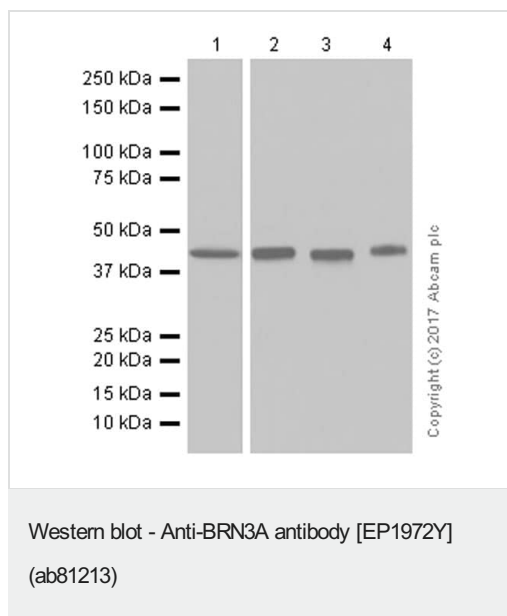
### Developmental stage

Expression peaks early in embryogenesis (day 13.5) and is undetectable 14 days after birth.

### Cellular localization

Nucleus.

## Images



**All lanes :** Anti-BRN3A antibody [EP1972Y] (ab81213) at 1/2000 dilution (purified)

**Lane 1 :** SW480 (Human colorectal adenocarcinoma epithelial cell) whole cell lysates

**Lane 2 :** Mouse cerebellum lysates

**Lane 3 :** Rat brain lysates

**Lane 4 :** Rat spinal cord lysates

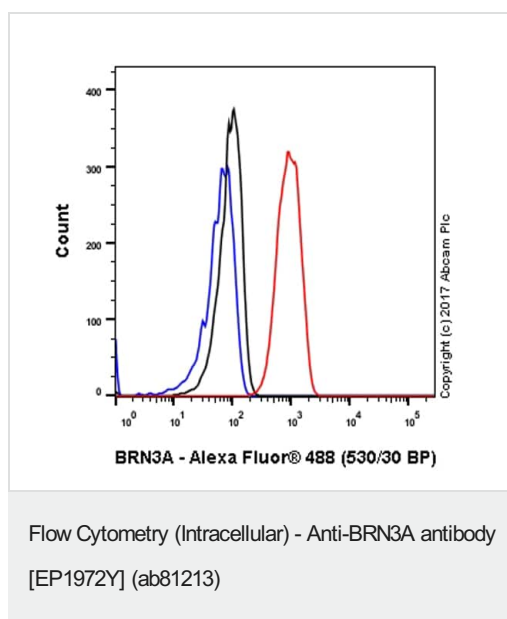
Lysates/proteins at 20 µg per lane.

## Secondary

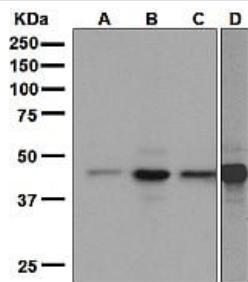
**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

**Predicted band size:** 43 kDa

Blocking and diluting buffer: 5% NFDM/TBST.



Intracellular Flow Cytometry analysis of SH-SY5Y (Human neuroblastoma epithelial cell) cells labeling BRN3A with purified ab81213 at 1/100 dilution (red). Cells were fixed with 4% Paraformaldehyde. A Goat anti rabbit IgG (Alexa Fluor® 488) secondary antibody was used at 1/2000 dilution. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).



Western blot - Anti-BRN3A antibody [EP1972Y]  
(ab81213)

**All lanes :** Anti-BRN3A antibody [EP1972Y] (ab81213) (unpurified)

**Lane 1 :** LNCaP

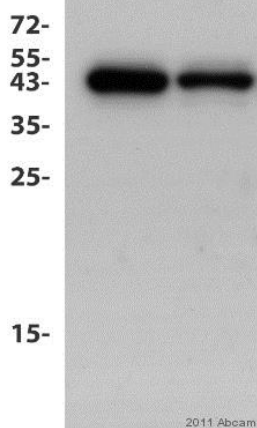
**Lane 2 :** SW480

**Lane 3 :** PC-3

**Lane 4 :** Human brain lysate

**Predicted band size:** 43 kDa

**Observed band size:** 43 kDa



Western blot - Anti-BRN3A antibody [EP1972Y]  
(ab81213)

This image is courtesy of an Anonymous Abreview.

**All lanes :** Anti-BRN3A antibody [EP1972Y] (ab81213) at 1/2000 dilution (unpurified)

**Lane 1 :** Adult mouse cerebellum lysate

**Lane 2 :** Adult mouse lower brainstem lysate

Lysates/proteins at 20 µg per lane.

### Secondary

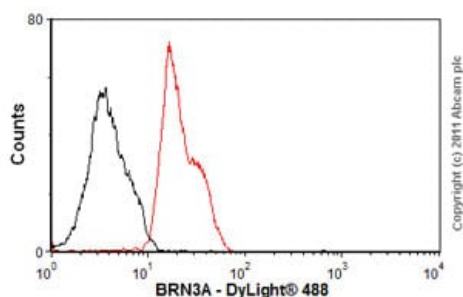
**All lanes :** HRP-conjugated Mouse anti-Rabbit IgG monoclonal. at 1/10000 dilution

Performed under reducing conditions.

**Predicted band size:** 43 kDa

**Observed band size:** 43 kDa

**Exposure time:** 2 minutes



Flow Cytometry (Intracellular) - Anti-BRN3A antibody  
[EP1972Y] (ab81213)

Overlay histogram showing SH-SY5Y cells stained with unpurified ab81213 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab81213, 1/50 dilution) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-rabbit IgG (H+L) ([ab96899](#)) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was rabbit IgG (monoclonal) (1 µg/1x10<sup>6</sup> cells) used under the same conditions. Acquisition of >5,000 events was performed.

### 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-BRN3A antibody [EP1972Y] (ab81213)

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

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