


### Anti-alpha Internexin antibody [2E3] ab7654

★ ★ ★ ★ ★ [3 Abreviews](#) [3 References](#) [3 Images](#)

#### Overview

<b>Product name</b>	Anti-alpha Internexin antibody [2E3]
<b>Description</b>	Mouse monoclonal [2E3] to alpha Internexin
<b>Host species</b>	Mouse
<b>Specificity</b>	specifically recognizes a-internexin.
<b>Tested applications</b>	<b>Suitable for:</b> WB, Flow Cyt, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Cow, Human <b>Predicted to work with:</b> Mammals 
<b>Immunogen</b>	Recombinant full length protein corresponding to Rat alpha Internexin. (Purified from E. coli).
<b>Epitope</b>	C-terminal non-helical extension of the protein.
<b>Positive control</b>	WB: Rat and mouse brain and spinal cord lysates; Cow spinal cord lysate. Flow Cyt: SH-SY5Y cells.
<b>General notes</b>	<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&amp;As</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 or -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	Preservative: 0.03% Sodium azide Constituents: PBS, 50% Glycerol
<b>Purity</b>	Tissue culture supernatant
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	2E3
<b>Isotype</b>	IgG1

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab7654 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
WB	★☆☆☆☆ (1)	1/100. Predicted molecular weight: 66 kDa.
Flow Cyt		1/100. <b><u>ab170190</u></b> - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
ICC/IF		1/500.

## Target

### Function

Class-IV neuronal intermediate filament that is able to self-assemble. It is involved in the morphogenesis of neurons. It may form an independent structural network without the involvement of other neurofilaments or it may cooperate with NF-L to form the filamentous backbone to which NF-M and NF-H attach to form the cross-bridges.

### Tissue specificity

Found predominantly in adult CNS.

### Sequence similarities

Belongs to the intermediate filament family.

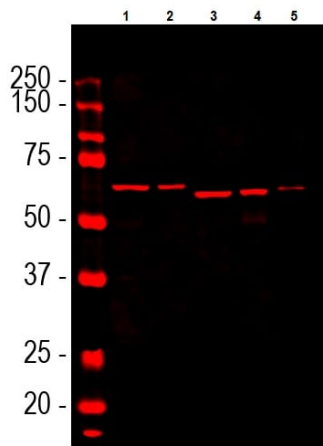
### Developmental stage

Expressed in brain as early as the 16th week of gestation, and increased rapidly and reached a steady state level by the 18th week of gestation.

### Post-translational modifications

O-glycosylated.  
Phosphorylated upon DNA damage, probably by ATM or ATR.

## Images



Western blot - Anti-alpha Internexin antibody [2E3]  
(ab7654)

**All lanes :** Anti-alpha Internexin antibody [2E3] (ab7654) at  
1/10000 dilution

**Lane 1 :** Rat brain lysate

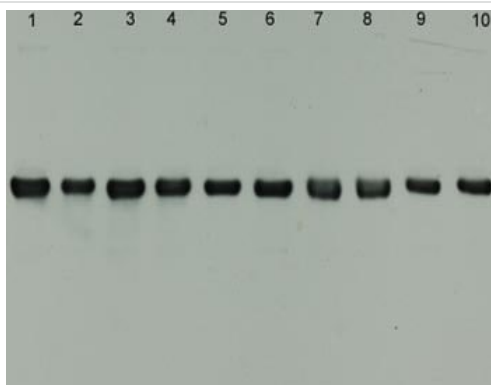
**Lane 2 :** Rat spinal cord lysate

**Lane 3 :** Mouse brain lysate

**Lane 4 :** Mouse spinal cord lysate

**Lane 5 :** Cow spinal cord lysate

**Predicted band size:** 66 kDa



Western blot - Anti-alpha Internexin antibody [2E3]  
(ab7654)

**All lanes :** Anti-alpha Internexin antibody [2E3] (ab7654)

**Lanes 1-2 :** Crude homogenate of rat facial nucleus at 3 days after  
experimental injury

**Lanes 3-4 :** Crude homogenate of rat facial nucleus at 5 days after  
experimental injury

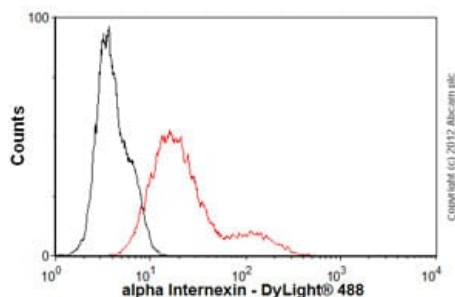
**Lanes 5-6 :** Crude homogenate of rat facial nucleus at 7 days after  
experimental injury

**Lanes 7-8 :** Crude homogenate of rat facial nucleus at 14 days  
after experimental injury

**Lanes 9-10 :** Crude homogenate of rat facial nucleus at 28 days  
after experimental injury

**Predicted band size:** 66 kDa

**Observed band size:** 66 kDa



Flow Cytometry - Anti-alpha Internexin antibody  
[2E3] (ab7654)

Overlay histogram showing SH-SY5Y cells stained with ab7654 (red line). The cells were fixed with 4% paraformaldehyde (10 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 (ab7654, 1/100 dilution) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) ([ab96879](#)) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] ([ab91353](#), 2µg/1x10<sup>6</sup> cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in SH-SY5Y cells fixed with 80% methanol (5 min)/permeabilized

with 0.1% PBS-Tween for 20 min used under the same conditions.

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

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