

## Product datasheet

# Anti-NUMBL antibody ab37500

★★★★★ 2 Abreviews 5 References 4 Images

### Overview

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<b>Product name</b>	Anti-NUMBL antibody
<b>Description</b>	Rabbit polyclonal to NUMBL
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, ICC/IF, IHC-FoFr
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat <b>Predicted to work with:</b> Cow, Human 
<b>Immunogen</b>	Synthetic peptide conjugated to KLH derived from within residues 200 - 300 of Human NUMBL. Read Abcam's proprietary immunogen policy (Peptide available as <a href="#">ab37499</a> .)
<b>Positive control</b>	This antibody gave a positive signal in the following lysates: Brain (Mouse) Whole Cell Lysate Testis (Mouse) Whole Cell Lysate Pancreas (Mouse) Whole Cell Lysate Lung (Mouse) Whole Cell Lysate Brain (Mouse) Tissue Lysate Spinal Cord (Mouse) Tissue Lysate Brain (Rat) Tissue Lysate - normal tissue

### Properties

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<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: 0.02% Sodium Azide Constituents: 1% BSA, PBS, pH 7.4
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

### Applications

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Our [Abpromise guarantee](#) covers the use of **ab37500** 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		Use a concentration of 1 µg/ml. Detects a band of approximately 65 kDa (predicted molecular weight: 65 kDa).
ICC/IF		Use at an assay dependent concentration. PubMed: 20079715
IHC-FoFr	★★★★☆	1/1000.

## Target

### Function

Plays a role in the process of neurogenesis. Required throughout embryonic neurogenesis to maintain neural progenitor cells, also called radial glial cells (RGCs), by allowing their daughter cells to choose progenitor over neuronal cell fate. Not required for the proliferation of neural progenitor cells before the onset of embryonic neurogenesis. Also required postnatally in the subventricular zone (SVZ) neurogenesis by regulating SVZ neuroblasts survival and ependymal wall integrity. Negative regulator of NF-kappa-B signaling pathway. The inhibition of NF-kappa-B activation is mediated at least in part, by preventing MAP3K7IP2 to interact with polyubiquitin chains of TRAF6 and RIPK1 and by stimulating the 'Lys-48'-linked polyubiquitination and degradation of TRAF6 in cortical neurons.

### Sequence similarities

Contains 1 PID domain.

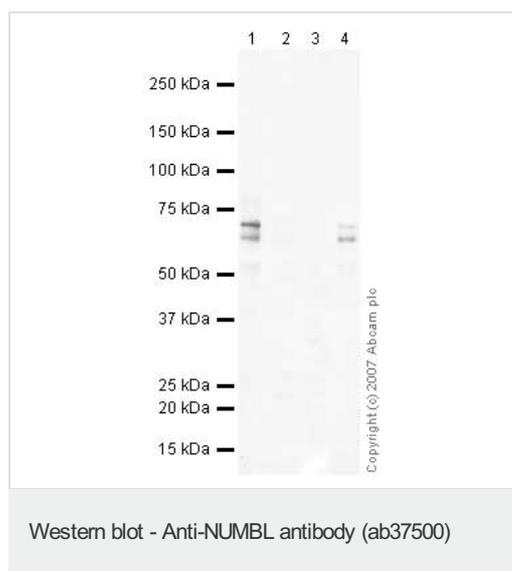
### Domain

The PTB domain is necessary for the inhibition of MAP3K7IP2-mediated activation of NF-kappa-B.

### Cellular localization

Cytoplasm. Symmetrically distributed throughout the cytoplasm in non dividing neuroblasts of the CNS.

## Images



**All lanes :** Anti-NUMBL antibody (ab37500) at 1 µg/ml

**Lane 1 :** Brain (Mouse) Whole Cell Lysate - normal tissue

**Lane 2 :** Testis (Mouse) Whole Cell Lysate - normal tissue

**Lane 3 :** Mouse pancreas tissue lysate - total protein ([ab29363](#))

**Lane 4 :** Lung (Mouse) Whole Cell Lysate - normal tissue

Lysates/proteins at 10 µg per lane.

### Secondary

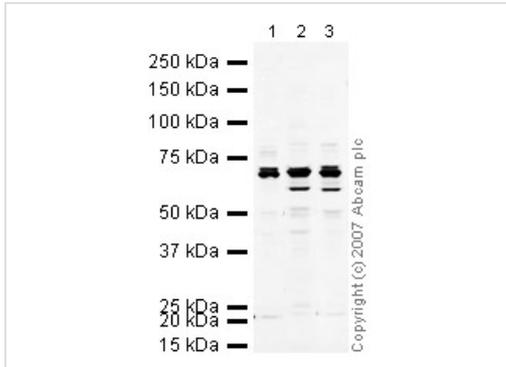
**All lanes :** IRDye 680 Conjugated Goat Anti-Rabbit IgG (H+L) at 1/10000 dilution

Performed under reducing conditions.

**Predicted band size:** 65 kDa

**Observed band size:** 65 kDa

**Additional bands at:** 70 kDa. We are unsure as to the identity of these extra bands.



Western blot - Anti-NUMBL antibody (ab37500)

**All lanes :** Anti-NUMBL antibody (ab37500) at 1 µg/ml

**Lane 1 :** Brain (Mouse) Tissue Lysate

**Lane 2 :** Spinal Cord (Mouse) Tissue Lysate

**Lane 3 :** Brain (Rat) Tissue Lysate - normal tissue

Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes :** IRDye 680 Conjugated Goat Anti-Rabbit IgG (H+L) at 1/10000 dilution

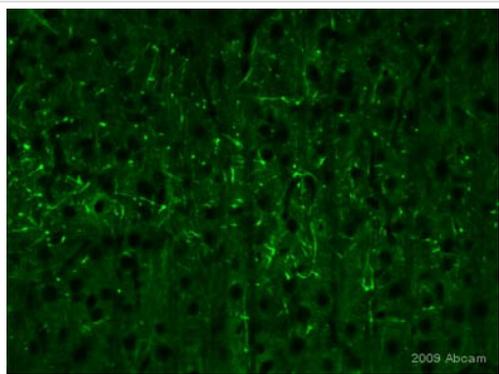
Performed under reducing conditions.

**Predicted band size:** 65 kDa

**Observed band size:** 65-70 kDa

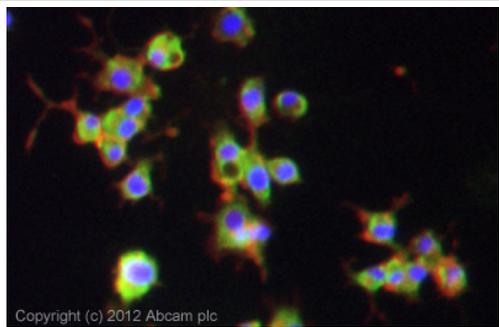
[why is the actual band size different from the predicted?](#)

**Additional bands at:** 60 kDa. We are unsure as to the identity of these extra bands.



Immunohistochemistry (PFA perfusion fixed frozen sections) - Anti-NUMBL antibody (ab37500)

ab37500 staining NUMBL in rat brain tissue section by Immunohistochemistry (PFA perfusion fixed frozen sections). Tissue from 4% PFA perfused animals underwent overnight fixation in 4% paraformaldehyde, cryoprotected in 30% sucrose and cut using cryostat. The primary antibody was diluted, 1/1000 (PBS + 0.3% Triton X100) and incubated with sample for 18 hours at 20°C. An Alexa Fluor® 488 conjugated goat polyclonal to rabbit IgG was used undiluted as secondary.



Immunocytochemistry/ Immunofluorescence - Anti-NUMBL antibody (ab37500)

ICC/IF image of ab37500 stained pc12 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 (ab37500, 1µg/ml) overnight at +4°C. The secondary antibody (green) was ab96899, DyLight® 488 goat anti-rabbit IgG (H+L) used at a 1/250 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.

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

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