

Product datasheet

Anti-NUMB antibody ab14140

★★★★★ 8 Abreviews 32 References 画像数 10

製品の概要

製品名	Anti-NUMB antibody
製品の詳細	Rabbit polyclonal to NUMB
由来種	Rabbit
特異性	The antibody may cross react with NUMBL protein (Swissprot ID Q9Y6R0) because the immunogen used to raise this antibody has a 92% homology with NUMBL protein from Human and Mouse. Denaturing of the protein sample is imperative to the success of ab14140 detecting a single specific band in WB (denature at 95°C for 15min). An additional, higher band (around 80kDa) is seen if not denatured.
アプリケーション	適用あり: IHC-P, ICC/IF, IHC-Fr, WB, IP, IHC - Wholemount
種交差性	交差種: Mouse, Rat, Human, Zebrafish 交差が予測される動物種: Chicken, Monkey, Non human primates
免疫原	Synthetic peptide derived from residues 600 to the C-terminus of Human NUMB. Immunogen の所有権に関して.
ポジティブ・コントロール	WB: Mouse and Rat Brain Tissue Lysates. IHC-P: Human adrenal gland tissue IHC-Fr: Rat Brain tissue ICC/IF: Mouse neocortex neural precursor cells

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
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 **ab14140** 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
IHC-P		Use at an assay dependent concentration.
ICC/IF	★★★★★	Use a concentration of 8 µg/ml.
IHC-Fr	★★★★☆	Use at an assay dependent concentration.
WB	★★★★★	Use a concentration of 0.5 - 1 µg/ml. Detects a band of approximately 75 kDa (predicted molecular weight: 70 kDa). Can be blocked with Human NUMB peptide (ab14141) .
IP		Use at an assay dependent concentration.
IHC - Wholmount	★★★★★	1/500.

ターゲット情報

機能	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 neurogenesis. Also involved postnatally in the subventricular zone (SVZ) neurogenesis by regulating SVZ neuroblasts survival and ependymal wall integrity. May also mediate local repair of brain ventricular wall damage.
配列類似性	Contains 1 PID domain.
翻訳後修飾	Isoform 1 and isoform 2 are ubiquitinated by LNX leading to their subsequent proteasomal degradation (By similarity). Ubiquitinated; mediated by SIAH1 and leading to its subsequent proteasomal degradation.
細胞内局在	Membrane.

画像

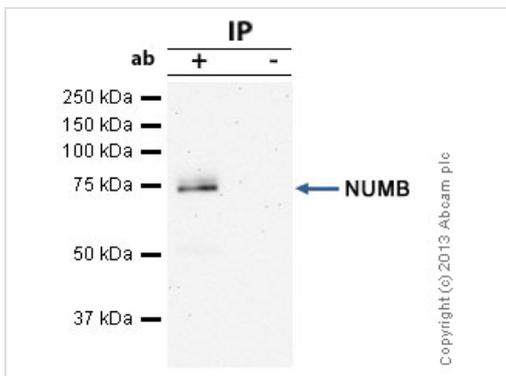


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NUMB antibody (ab14140)

Image courtesy of [Human Protein Atlas](#)

ab14140 staining NUMB in Human adrenal gland. The paraffin embedded human tissue was incubated with ab14140 (1/250 dilution) for 30 mins at room temperature. Antigen retrieval was performed by heat induction in citrate buffer pH 6. Ab14140 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



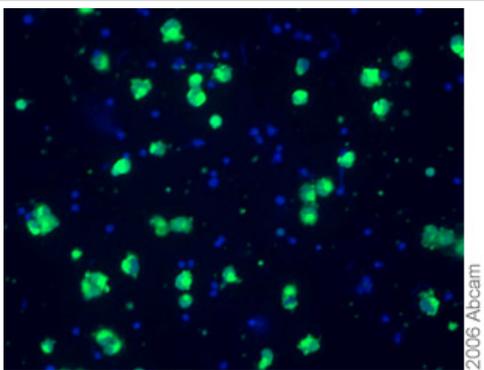
Immunoprecipitation - Anti-NUMB antibody (ab14140)

NUMB was immunoprecipitated using 0.5mg Mouse Brain whole tissue lysate, 5µg of Rabbit polyclonal to NUMB 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 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 ab14140.

Secondary: Mouse monoclonal [SB62a] Secondary Antibody to Rabbit IgG light chain (HRP) ([ab99697](#)).

Band: 75kDa: NUMB.

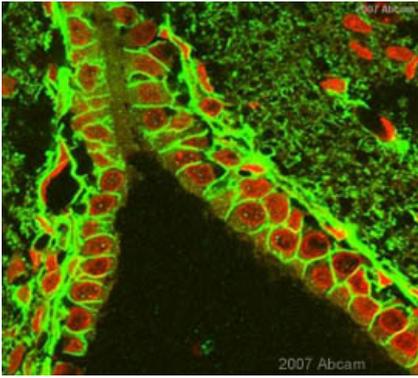


Immunocytochemistry/ Immunofluorescence - Anti-NUMB antibody (ab14140)

This image is courtesy of Randal Moldrich, CNRS UMR7637, ESPCI, France

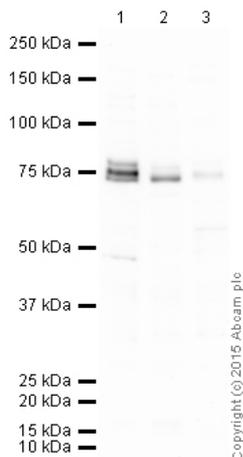
ab14140 detecting NUMB protein in dissociated neural precursor cells cultured from embryonic day 13 mouse neocortex in the presence of bFGF, EGF and LIF. NUMB immunoreactivity (green) was found in the cytosol of neural precursor cells. This localisation is in general agreement with published studies (e.g. Chen et al., EJM, 2005), where similar labelling is observed in the cytosol of cells of the grey matter of adult mouse spinal cord. Immunocytochemistry: All steps were performed in PBS. Cells were fixed in 4% PFA for 15min, permeabilised with 0.1% TX100 for 10min and blocked with 5% BSA, 0.1% TX100 for 45min. ab14140 was incubated at 8µg/ml for 12h at 4°C in 5% BSA, 0.1% TX100. Cultures were washed (3x) of primary antibody solution. Goat anti-rabbit AlexaFluor 488 was used as secondary antibody (1/400) in 5% BSA, 0.1% TX100 for 1h at RT. To-pro-3 was used as a nuclear counterstain (blue). Treated cultures were mounted on glass

coverslips with Mowiol.



Immunohistochemistry (Frozen sections) - Anti-
NUMB antibody (ab14140)

This image is courtesy of an Abreview submitted by Mr
Darius Gleason



Western blot - Anti-NUMB antibody (ab14140)

ab14140 at 1/100 staining rat brain tissue sections by IHC-Fr. The tissue was paraformaldehyde fixed and blocked with 5% serum prior to incubation with the antibody for 24 hours. An Alexa-Fluor® 488 conjugated goat anti-rabbit antibody was used as the secondary. NUMB staining is shown in green.

All lanes : Anti-NUMB antibody (ab14140) at 1 µg/ml

Lane 1 : Brain (Rat) Tissue Lysate

Lane 2 : Brain (Mouse) Tissue Lysate

Lane 3 : Human brain tissue lysate - total protein ([ab29466](#))

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Anti-Rabbit IgG VHH Single Domain (HRP) ([ab191866](#))
at 1/50000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 70 kDa

Observed band size: 75 kDa

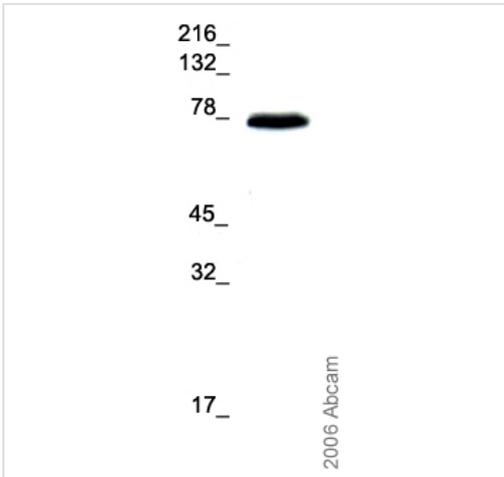
[why is the actual band size different from the predicted?](#)

Additional bands at: 74 kDa (possible isoform), 77 kDa (possible post-translational modification)

Exposure time: 4 minutes

This blot was produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes.

The membrane was then blocked for an hour using 2% Bovine Serum Albumin before being incubated with ab14140 overnight at 4°C. Antibody binding was detected using an anti-rabbit antibody conjugated to HRP, and visualised using ECL development solution [ab133406](#).



Western blot - Anti-NUMB antibody (ab14140)

This image is courtesy of Randal Moldrich, CNRS UMR7637, ESPCI, France

Anti-NUMB antibody (ab14140) at 0.5 µg/ml + Adult Rat whole brain lysate at 40 µg

Secondary

Goat anti-rabbit IgG HRP at 1/20000 dilution

Developed using the ECL technique.

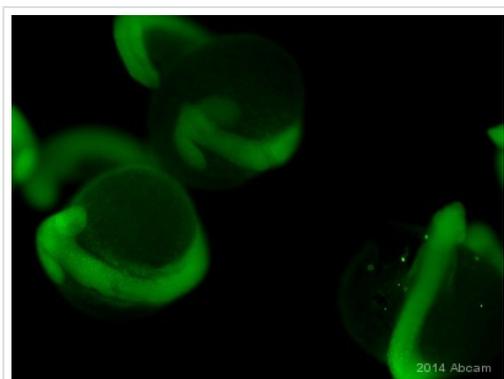
Performed under reducing conditions.

Predicted band size: 70 kDa

Observed band size: 75 kDa [why is the actual band size different from the predicted?](#)

Exposure time: 30 seconds

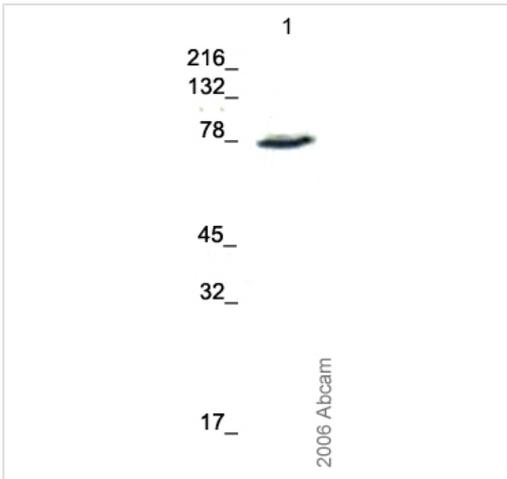
Denaturing of the protein sample was imperative to the success of this WB (denatured at 95°C for 15min). An additional, higher band (around 80kDa) is seen if not denatured. Original concentration tried was 1ug/ml but we found this high given the circumstances and have since used 0.5ug/ml. Theoretically, even less could be used.



IHC - Wholemount - Anti-NUMB antibody (ab14140)

This image is courtesy of an anonymous abreview.

ab14140 staining NUMB in Zebrafish embryo nervous system by Immunohistochemistry (Whole mount). Samples were incubated with primary antibody (1/500 in BSA blocking buffer) for 48 hours at 4°C. An Alexa Fluor[®]488-conjugated Goat anti-rabbit polyclonal (1/500) was used as the secondary antibody.



Western blot - Anti-NUMB antibody (ab14140)

This image is courtesy of Randal Moldrich, CNRS UMR7637, ESPCI, France

Anti-NUMB antibody (ab14140) at 0.5 µg/ml + Mouse whole brain lysate

Secondary

Goat anti-rabbit IgG HRP at 1/20000 dilution

Developed using the ECL technique.

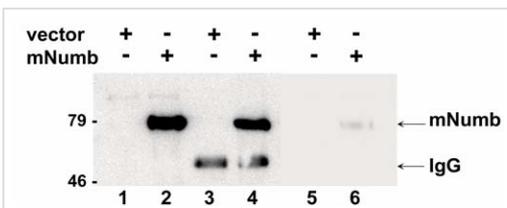
Performed under reducing conditions.

Predicted band size: 70 kDa

Observed band size: 75 kDa [why is the actual band size different from the predicted?](#)

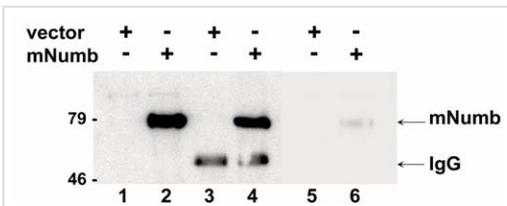
Exposure time: 30 seconds

Denaturing of the protein sample was imperative to the success of this WB. An additional, higher band (around 80kDa) is seen if not denatured. Original concentration tried was 1ug/ml but we found this high given the circumstances and have since used 0.5ug/ml. Theoretically, even less could be used.



Western blot

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Western blot - Anti-NUMB antibody (ab14140)

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