

Product datasheet

Anti-NEDD4 antibody ab27979

★★★★☆ 5 Abreviews 2 References 画像数 3

製品の概要

製品名	Anti-NEDD4 antibody
製品の詳細	Rabbit polyclonal to NEDD4
由来種	Rabbit
アプリケーション	適用あり: IHC-FoFr, WB, ICC/IF
種交差性	交差種: Mouse, Human 交差が予測される動物種: Rat, Rabbit
免疫原	Synthetic peptide conjugated to KLH derived from within residues 600 - 700 of Human NEDD4.Immunogen の所有権に関して(Peptide available as ab30939 .)
ポジティブ・コントロール	HeLa Whole Cell Lysate (Human epithelial carcinoma cell line)

製品の特性

製品の状態	Liquid
保存方法	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.
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 **ab27979** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

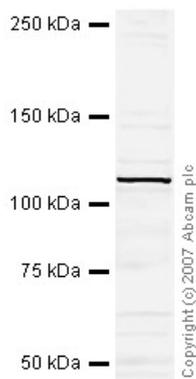
アプリケーション	Abreviews	特記事項
IHC-FoFr	★★★★☆	1/1000.

アプリケーション	Abreviews	特記事項
WB	★★★★★	Use a concentration of 1 µg/ml. Detects a band of approximately 115 kDa (predicted molecular weight: 115 kDa).
ICC/IF		Use a concentration of 5 µg/ml.

ターゲット情報

機能	E3 ubiquitin-protein ligase which accepts ubiquitin from an E2 ubiquitin-conjugating enzyme in the form of a thioester and then directly transfers the ubiquitin to targeted substrates. Involved in the pathway leading to the degradation of VEGFR-2/KDFR, independently of its ubiquitin-ligase activity. Monoubiquitinates IGF1R at multiple sites, thus leading to receptor internalization and degradation in lysosomes. According to PubMed:18562292 the direct link between NEDD4 and PTEN regulation through polyubiquitination described in PubMed:17218260 is questionable. Involved in ubiquitination of ERBB4 intracellular domain E4ICD. Involved in the budding of many viruses. Part of a signaling complex composed of NEDD4, RAP2A and TNIK which regulates neuronal dendrite extension and arborization during development. Ubiquitinates TNK2 and regulates EGF-induced degradation of EGFR and TNF2.
パスウェイ	Protein modification; protein ubiquitination.
配列類似性	Contains 1 HECT (E6AP-type E3 ubiquitin-protein ligase) domain. Contains 4 WW domains.
ドメイン	The WW domains mediate interaction with LITAF, RNF11, WBP1, WBP2, TMEPAI, NDFIP1 and PRRG2.
翻訳後修飾	Auto-ubiquitinated.
細胞内局在	Cytoplasm. Cell membrane. Recruited to the plasma membrane by GRB10. Once complexed with GRB10 and IGF1R, follows IGF1R internalization, remaining associated with early endosomes. Uncouples from IGF1R-containing endosomes before the sorting of the receptor to the lysosomal compartment (By similarity). May be recruited to exosomes by NDFIP1.

画像



Western blot - Anti-NEDD4 antibody (ab27979)

Anti-NEDD4 antibody (ab27979) at 1 μ g/ml +
HeLa (Human epithelial carcinoma cell line)
Whole Cell Lysate at 10 μ g

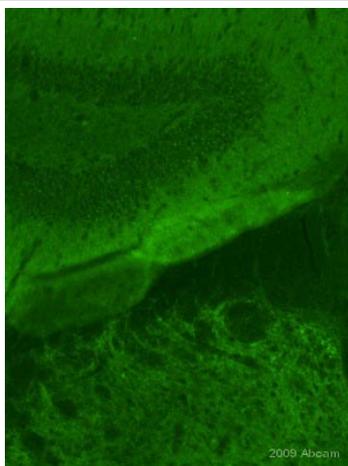
Secondary

IRDye 680 Conjugated Goat Anti-Rabbit IgG
(H+L) at 1/15000 dilution

Performed under reducing conditions.

Predicted band size: 115 kDa

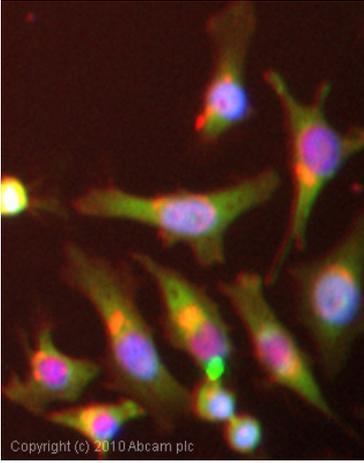
Observed band size: 115 kDa



Immunohistochemistry (PFA perfusion fixed frozen
sections) - Anti-NEDD4 antibody (ab27979)

This image is courtesy of an Abreview submitted by Dr
Sophie Pezet

ab27979 staining NEDD4 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 abcam antibody [ab60314](#), Chromeo488
conjugated goat polyclonal to rabbit IgG,
diluted 1/1000 was used as secondary. The
antibody produced a diffuse and widespread
staining in many brain areas. The image
shows the staining obtained in the
hippocampus part of brain.



Immunocytochemistry/ Immunofluorescence-NEDD4 antibody(ab27979)

ICC/IF image of ab27979 stained HeLa 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 (ab27979, 5µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 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.

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