abcam

Product datasheet

Anti-NEDD4-2 antibody ab46521

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概述

产品名称	Anti-NEDD4-2抗体
描述	兔多克隆抗体to NEDD4-2
宿主	Rabbit
经测试应用	**适用于:** IHC-P, ICC/IF, WB
种属反应性	**与反应:** Human
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
常规说明	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. 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&As

性能

形式	Liquid
存放说明	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.
纯度	Whole antiserum
克隆	多克隆
同种型	IgG

应用

The Abpromise guarantee	Abpromise™承诺保证使用ab46521于以下的经测试应用

"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
IHC-P	★★☆☆☆ (1)	1/1000.
ICC/IF		1/200.
WB	★★★☆☆ (3)	1/1000. Detects a band of approximately 120 kDa (predicted molecular weight: 120 kDa).

靶标

功能 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. Inhibits TGF-beta signaling by triggering SMAD2 and TGFBR1 ubiquitination and proteasome-dependent degradation. Promotes ubiquitination and internalization of various plasma membrane channels such as ENaC, Nav1.2, Nav1.3, Nav1.5, Nav1.7, Nav1.8, Kv1.3, EAAT1 or CLC5. Promotes ubiquitination and degradation of SGK1 and TNK2.

组织特异性 Ubiquitously expressed, with highest levels in prostate, pancreas and kidney.

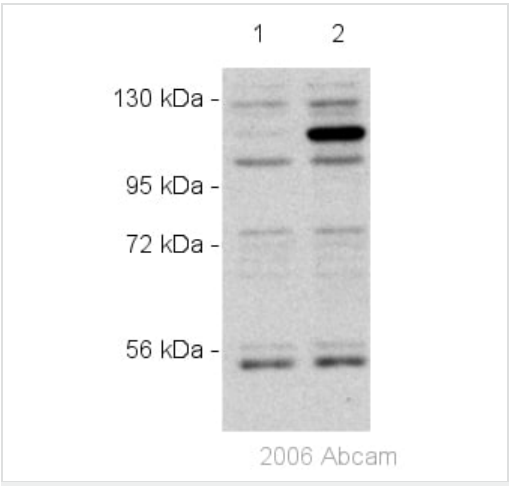
通路 Protein modification; protein ubiquitination.

序列相似性 Contains 1 C2 domain.
Contains 1 HECT (E6AP-type E3 ubiquitin-protein ligase) domain.
Contains 4 WW domains.

翻译后修饰 Phosphorylated by SGK1 or PKA; which impairs interaction with SCNN. Interaction with YWHAH inhibits dephosphorylation.
Auto-ubiquitinated.

细胞定位 Cytoplasm. May be recruited to exosomes by NDFIP1.

图片

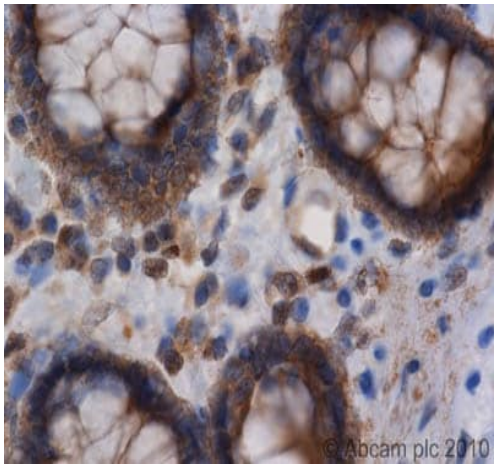


Western blot - Anti-NEDD4-2 antibody (ab46521)

All lanes : Anti-NEDD4-2 antibody (ab46521)

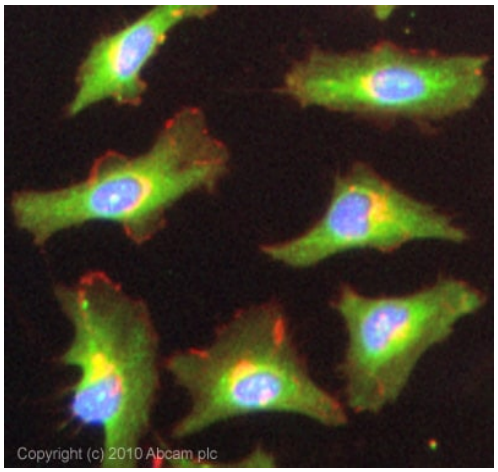
Lane 1 : Extract from non-transfected HEK293 cells
Lane 2 : Extract from HEK293 cells transfected with NEDD4-2

Predicted band size: 120 kDa
Observed band size: 120 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NEDD4-2 antibody (ab46521)

ab46251 (1/1000) staining NEDD4-2 in human colon using an automated system (DAKO Autostainer Plus). Using this protocol there is strong cytoplasmic and membrane staining of the intestinal glands cells.
Sections were rehydrated and antigen retrieved with the Dako 3 in 1 AR buffer EDTA pH 9.0 in a DAKO PT link. Slides were peroxidase blocked in 3% H2O2 in methanol for 10 mins. They were then blocked with Dako Protein block for 10 minutes (containing casein 0.25% in PBS) then incubated with primary antibody for 20 min and detected with Dako envision flex amplification kit for 30 minutes. Colorimetric detection was completed with Diaminobenzidine for 5 minutes. Slides were counterstained with Haematoxylin and coverslipped under DePeX. Please note that, for manual staining, optimization of primary antibody concentration and incubation time is recommended. Signal amplification may be required.



Immunocytochemistry/ Immunofluorescence - Anti-NEDD4-2 antibody (ab46521)

ICC/IF image of ab46521 stained HeLa cells. The cells were 100% methanol fixed (5 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 ab46521 at 1/200 dilution 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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