abcam

Product datasheet

Anti-NAP1L1 antibody ab21630

★★★★★ 4 Abreviews 5 References 4 图像

概述

产品名称	Anti-NAP1L1抗体
描述	**兔多克隆抗体**to NAP1L1
宿主	Rabbit
经测试应用	**适用于:** IHC-P, WB, ICC/IF
种属反应性	**与反应:** Human **预测可用于:** Mouse, Rat, Dog, Xenopus laevis
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	Recombinant Human NAP1L1 protein (**ab117213**) can be used as a positive control in WB. This antibody gave a positive signal in the following whole cell lysates: U2OS (+/- ionizing radiation); HeLa; A431; HEK293. This antibody gave a positive signal in the following tissues: Formalin Fixed Paraffin Embedded Normal Human Skin.
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.
存储溶液	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.

纯度	Immunogen affinity purified
克隆	**多克隆**
同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用**ab21630**于以下的**经测试应用

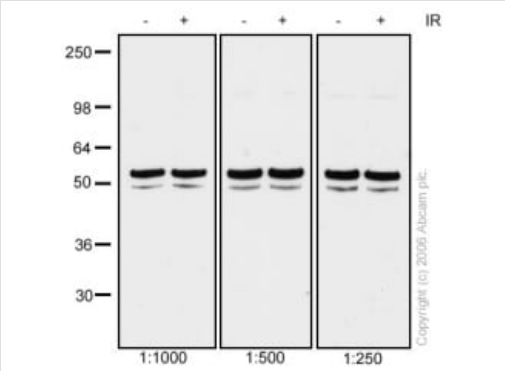
"应用说明"**部分 下显示的**仅为**推荐的起始稀释度**;实际**最佳的稀释度**/浓度应**由使用者检定。**

应用	Ab评论	说明
IHC-P		Use a concentration of 5 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
WB	★★★★☆ (3)	1/250 - 1/1000. Detects a band of approximately 52 kDa (predicted molecular weight: 45 kDa).
ICC/IF	★★★★★ (1)	Use a concentration of 1 µg/ml.

靶标

功能	May be involved in modulating chromatin formation and contribute to regulation of cell proliferation.
组织特异性	Ubiquitously expressed.
序列相似性	Belongs to the nucleosome assembly protein (NAP) family.
结构域	The acidic domains are probably involved in the interaction with histones.
翻译后修饰	Polyglutamylated by TTLL4, a modification that occurs exclusively on glutamate residues and results in polyglutamate chains on the gamma-carboxyl group. Some residues may also be monoglycylated but not polyglycylated due to the absence of functional TTLL10 in human.
细胞定位	Nucleus. Melanosome. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

图片



Western blot - Anti-NAP1L1 antibody (ab21630)

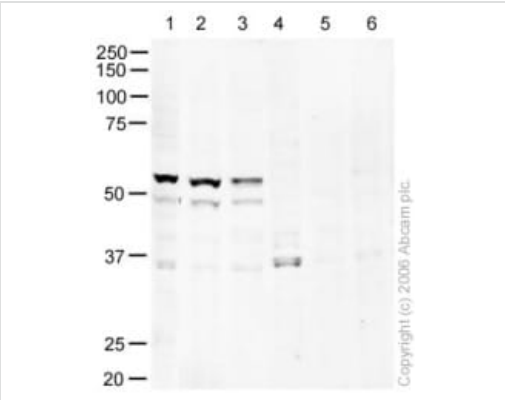
Lanes 1-2 : Anti-NAP1L1 antibody (ab21630) at 1/1000 dilution
Lanes 3-4 : Anti-NAP1L1 antibody (ab21630) at 1/500 dilution
Lanes 5-6 : Anti-NAP1L1 antibody (ab21630) at 1/250 dilution

Lanes 1 & 3 & 5 : U2OS cell lysate
Lanes 2 & 4 & 6 : U2OS cell lysate treated with ionizing radiation

Performed under reducing conditions.

Predicted band size: 45 kDa
Observed band size: 52 kDa
Additional bands at: 49 kDa (possible cleavage fragment), 49 kDa (possible cross reactivity)

For each lane, U2OS cells, either treated or not treated with ionizing radiation, were scraped from a 60 mm dish and added to 75µl of 2X Laemmli buffer. 20µl of these samples were loaded into each lane. ab21630 recognizes a major band of approximately 52 kDa corresponding closely in size to NAP1L1.



Western blot - Anti-NAP1L1 antibody (ab21630)

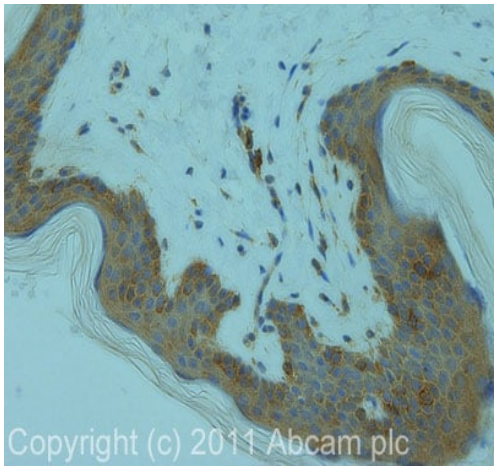
All lanes : Anti-NAP1L1 antibody (ab21630) at 1 µg/ml

Lane 1 : HeLa whole cell lysate at 20 µg
Lane 2 : A431 whole cell lysate at 20 µg
Lane 3 : HEK293 whole cell lysate at 20 µg
Lane 4 : HeLa whole cell lysate at 20 µg with Human NAP1L1 peptide (**ab22417**) at 1 µg/ml
Lane 5 : A431 whole cell lysate with Human NAP1L1 peptide (**ab22417**) at 1 µg/ml
Lane 6 : HEK293 whole cell lysate at 20 µg with Human NAP1L1 peptide (**ab22417**) at 1 µg/ml

Secondary
All lanes : Alexa fluor goat polyclonal to rabbit IgG at 1/10000 dilution

Predicted band size: 45 kDa
Observed band size: 52 kDa
Additional bands at: 35 kDa (possible cross reactivity, but this band is not blocked), 49 kDa (possible cleavage fragment), 49 kDa (possible cross reactivity)

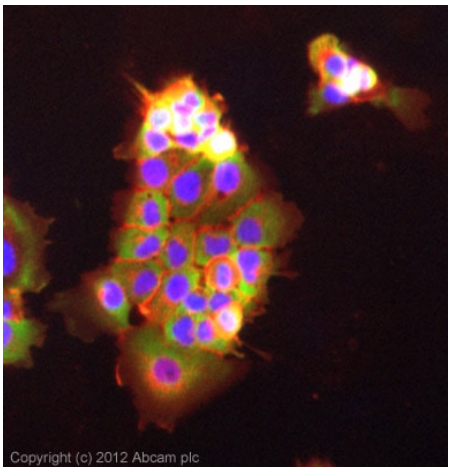
ab21630 recognizes a major band of approximately 52 kDa corresponding closely in size to NAP1L1. This band is competed away by the addition of the immunizing peptide, suggesting that this is a specific interaction.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NAP1L1 antibody (ab21630)

IHC image of ab21630 staining in human skin formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab21630, 5µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.



Immunocytochemistry/ Immunofluorescence - Anti-NAP1L1 antibody (ab21630)

ICC/IF image of ab21630 stained A431 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 (ab21630, 5µg/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.

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