abcam

Product datasheet

Anti-hnRNP L antibody [4D11] ab6106

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概述

产品名称	Anti-hnRNP L抗体[4D11]
描述	小鼠单克隆抗体[4D11] to hnRNP L
宿主	Mouse
经测试应用	**适用于:** IHC-P, WB, IP, Flow Cyt
种属反应性	**与反应:** Human
免疫原	Human hnRNP proteins (from HeLa cells) purified by affinity chromatography on ssDNA agarose.
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	Preservative: 0.1% Sodium azide Constituent: PBS
纯度	Protein A purified
纯化说明	Purified from supernatant.
克隆	单克隆
克隆编号	4D11
骨髓瘤	Sp2/0
同种型	IgG1

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab6106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 1 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
WB	★★★★★ (2)	1/2000. Detects a band of approximately 64 kDa (predicted molecular weight: 64 kDa).
IP	★★★★☆ (1)	Use at an assay dependent concentration.
Flow Cyt		Use 1µg for 10^6 cells. **ab170190** - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

靶标

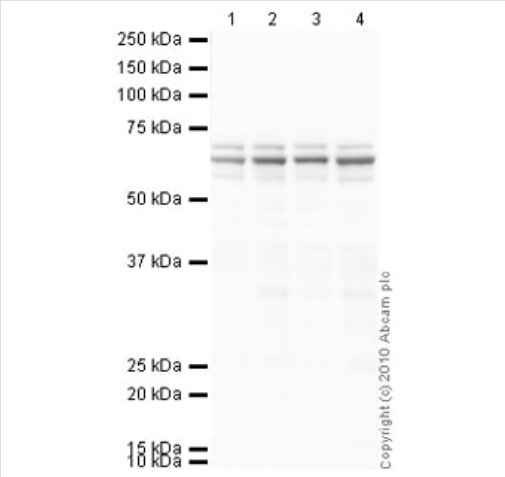
功能 This protein is a component of the heterogeneous nuclear ribonucleoprotein (hnRNP) complexes which provide the substrate for the processing events that pre-mRNAs undergo before becoming functional, translatable mRNAs in the cytoplasm. Is associated with most nascent transcripts including those of the landmark giant loops of amphibian lampbrush chromosomes. Associates, together with APEX1, to the negative calcium responsive element (nCaRE) B2 of the APEX2 promoter.

序列相似性 Contains 3 RRM (RNA recognition motif) domains.

翻译后修饰 Several isoelectric forms of the L protein are probably the results of post-translational modifications.

细胞定位 Nucleus > nucleoplasm. Cytoplasm. Localized in cytoplasmic mRNP granules containing untranslated mRNAs.

图片



Western blot - Anti-hnRNP L antibody [4D11] (ab6106)

All lanes : Anti-hnRNP L antibody [4D11] (ab6106) at 1 µg/ml

Lane 1 : HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate
Lane 2 : Jurkat (Human T cell lymphoblast-like cell line) Whole Cell Lysate
Lane 3 : MCF7 (Human breast adenocarcinoma cell line) Whole Cell Lysate
Lane 4 : HepG2 (Human hepatocellular liver carcinoma cell line) Whole Cell Lysate

Lysates/proteins at 10 µg per lane.

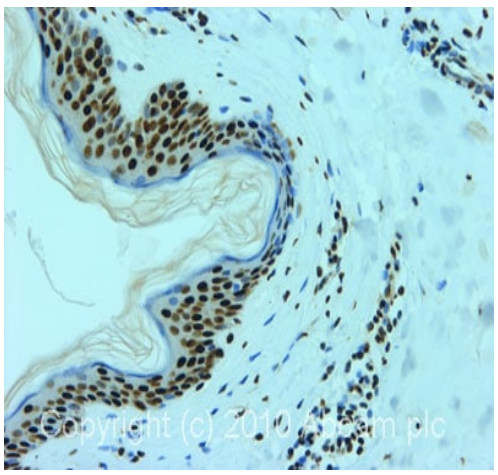
Secondary
All lanes : Goat Anti-Mouse IgG H&L (HRP) preadsorbed (**ab97040**) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 64 kDa
Observed band size: 64 kDa
Additional bands at: 60 kDa, 68 kDa. We are unsure as to the identity of these extra bands.

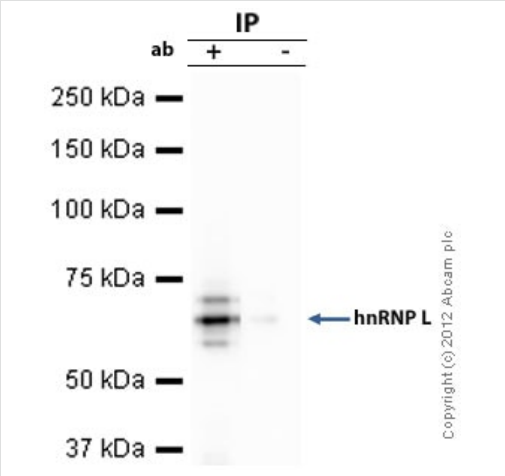
Exposure time: 1 minute



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-hnRNP L antibody [4D11] (ab6106)

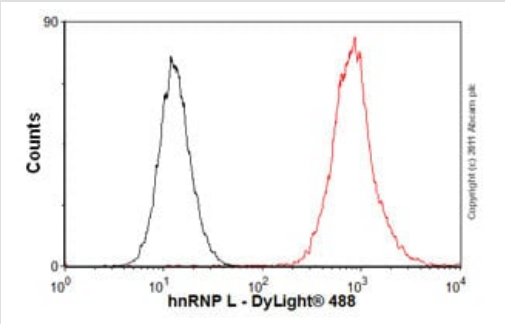
IHC image of ab6106 staining in human normal skin formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab6106, 1µg/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.



Immunoprecipitation - Anti-hnRNP L antibody [4D11] (ab6106)

hnRNP L was immunoprecipitated using 0.5mg Hela whole cell extract, 5µg of Mouse monoclonal to hnRNP L (ab6106) 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, Hela whole cell extract 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^{o}C; 10µl of each sample was separated on a SDS PAGE gel, transferred to a nitrocellulose membrane, blocked with 5% BSA and probed with ab6106.
Secondary: Goat polyclonal to mouse IgG light chain specific (HRP) at 1/5000 dilution.
Band: 65kDa: hnRNP L. Non specific - 70kDa and 55kDa: We are unsure as to the identity of this extra band.



Flow Cytometry - Anti-hnRNP L antibody [4D11] (ab6106)

Overlay histogram showing Jurkat cells stained with ab6106 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab6106, 1µg/1x10^6 cells) for 30 min at 22ºC. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (**ab96879**) at 1/500 dilution for 30 min at 22ºC. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] (**ab91353**, 2µg/1x10^6 cells) used under the same conditions. Acquisition of >5,000 events was performed.

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