

Anti-RAP1/TERF2IP antibody [4c8/1] ab14404

★★★★★ [4 Abreviews](#) [6 References](#) [3 图像](#)

概述

产品名称	Anti-RAP1/TERF2IP抗体[4c8/1]
描述	小鼠单克隆抗体[4c8/1] to RAP1/TERF2IP
宿主	Mouse
经测试应用	适用于: IP, WB, Flow Cyt
种属反应性	与反应: Human
免疫原	Recombinant full length protein corresponding to Human RAP1/TERF2IP.
阳性对照	In Western Blot, this antibody gave a positive signal in the following whole cell lysates: HeLa; HEK293; HepG2; A431.
常规说明	<p>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.</p> <p>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</p>

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: 0.02% Sodium azide Constituent: 99.98% PBS
纯度	Protein A purified
克隆	单克隆
克隆编号	4c8/1
骨髓瘤	Sp2/0-Ag14
同种型	IgG2b

The Abpromise guarantee

Abpromise™承诺保证使用ab14404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
IP		Use a concentration of 5 µg/ml.
WB	★★★★★ (2)	Use at an assay dependent concentration. Predicted molecular weight: 36 kDa.
Flow Cyt		Use 1µg for 10 ⁶ cells. ab91366 - Mouse monoclonal IgG2b, is suitable for use as an isotype control with this antibody. ab170192 - Mouse monoclonal IgG2b, is suitable for use as an isotype control with this antibody.

靶标

功能

Acts both as a regulator of telomere function and as a transcription regulator. Involved in the regulation of telomere length and protection as a component of the shelterin complex (telosome). In contrast to other components of the shelterin complex, it is dispensable for telomere capping and does not participate in the protection of telomeres against non-homologous end-joining (NHEJ)-mediated repair. Instead, it is required to negatively regulate telomere recombination and is essential for repressing homology-directed repair (HDR), which can affect telomere length. Does not bind DNA directly: recruited to telomeric double-stranded 5'-TTAGGG-3' repeats via its interaction with TERF2. Independently of its function in telomeres, also acts as a transcription regulator: recruited to extratelomeric 5'-TTAGGG-3' sites via its association with TERF2 or other factors, and regulates gene expression. When cytoplasmic, associates with the I-kappa-B-kinase (IKK) complex and acts as a regulator of the NF-kappa-B signaling by promoting IKK-mediated phosphorylation of RELA/p65, leading to activate expression of NF-kappa-B target genes.

组织特异性

Ubiquitous. Highly expressed.

序列相似性

Belongs to the RAP1 family.

Contains 1 BRCT domain.

Contains 1 Myb-like domain.

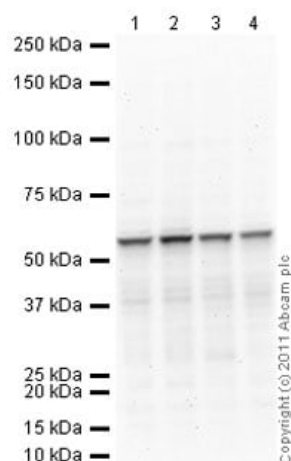
翻译后修饰

Phosphorylated upon DNA damage, probably by ATM or ATR.

细胞定位

Nucleus. Cytoplasm. Chromosome. Chromosome > telomere. Associates with chromosomes, both at telomeres and in extratelomeric sites. Also exists as a cytoplasmic form, where it associates with the IKK complex.

图片



Western blot - Anti-RAP1/TERF2IP antibody [4c8/1] (ab14404)

All lanes : Anti-RAP1/TERF2IP antibody [4c8/1] (ab14404) at 5 µg/ml

Lane 1 : HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate

Lane 2 : HEK293 (Human embryonic kidney cell line) Whole Cell Lysate

Lane 3 : HepG2 (Human hepatocellular liver carcinoma cell line) Whole Cell Lysate

Lane 4 : A431 (Human epithelial carcinoma cell line) Whole Cell Lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat polyclonal Secondary Antibody to Mouse IgG - H&L (HRP), pre-adsorbed at 1/5000 dilution

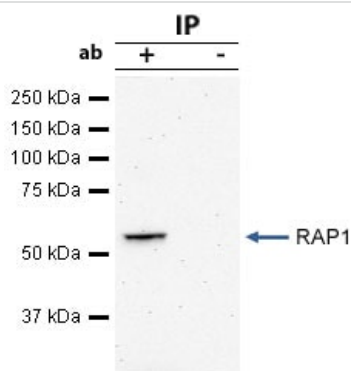
Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 36 kDa

Observed band size: 55 kDa

Exposure time: 8 minutes



Immunoprecipitation - Anti-RAP1/TERF2IP antibody [4c8/1] (ab14404)

RAP1 was immunoprecipitated using 0.5mg HeLa whole cell extract, 5µg of Mouse monoclonal to RAP1/TERF2IP RITM0035008 and 50µl of protein G magnetic beads (+). No antibody was added to the control (-).

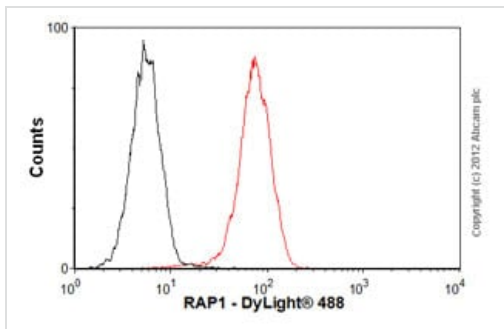
The antibody was incubated under agitation with Protein G beads for 10min, HeLa whole cell extract lysate diluted in RIPA buffer was added to each sample and incubated for a further 10min under agitation.

Proteins were eluted by addition of 40µl SDS loading buffer and incubated for 10min at 70°C; 10µl of each sample was separated on a SDS PAGE gel, transferred to a nitrocellulose membrane, blocked with 5% BSA and probed with ab14404.

Secondary: Goat polyclonal to mouse IgG light chain specific (HRP)

at 1/5000 dilution.

Band: 55kDa; RAP1



Flow Cytometry - Anti-RAP1/TERF2IP antibody
[4c8/1] (ab14404)

Overlay histogram showing HeLa cells stained with ab14404 (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 (ab14404, 1µg/1x10⁶ cells) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) ([ab96879](#)) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG2b [PLPV219] ([ab91366](#), 2µg/1x10⁶ cells) used under the same conditions. Acquisition of >5,000 events was performed.

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