abcam

Product datasheet

Anti-PRC1 antibody [16F2] ab119338

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概述

产品名称	Anti-PRC1抗体[16F2]
描述	小鼠单克隆抗体[16F2] to PRC1
宿主	Mouse
经测试应用	**适用于:** ICC/IF, WB
种属反应性	**与反应:** Human
免疫原	Recombinant Human PRC1
阳性对照	WB: PANC-1, HCT 116, C2C12, HeLa, SH-SY5Y, K-562, Raji whole cell extracts; ICC/IF: HeLa, A2058, U251 cells
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. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
存储溶液	Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 99% PBS
纯度	Protein G purified
克隆	单克隆
克隆编号	16F2
同种型	IgG2b

应用

The Abpromise guarantee	**Abpromise™承诺保证使用ab119338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
ICC/IF		1/100.
WB		Use a concentration of 3 µg/ml. Predicted molecular weight: 72 kDa.

靶标

功能 Cross-links antiparrallel microtubules at an average distance of 35 nM. Essential for controlling the spatiotemporal formation of the midzone and successful cytokinesis. Required for KIF14 localization to the central spindle and midbody.

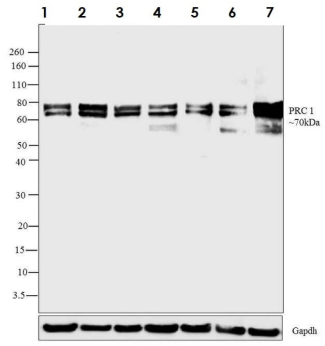
序列相似性 Belongs to the MAP65/ASE1 family.

结构域 Microtubule binding occurs via a basic patch in the central spectrin-like domain and requires also the unstructured C-terminal domain.

翻译后修饰 Phosphorylation by CDK1 in early mitosis holds PRC1 in an inactive monomeric state, during the metaphase to anaphase transition, PRC1 is dephosphorylated, promoting interaction with KIF4A, which then translocates PRC1 along mitotic spindles to the plus ends of antiparallel interdigitating microtubules. Dephosphorylation also promotes MT-bundling activity by allowing dimerization.

细胞定位 Nucleus. Cytoplasm. Cytoplasm > cytoskeleton > spindle pole. Predominantly localized to the nucleus of interphase cells. During mitosis becomes associated with the mitotic spindle poles and localizes with the cell midbody during cytokinesis.

图片



Western blot - Anti-PRC1 antibody [16F2] (ab119338)

All lanes : Anti-PRC1 antibody [16F2] (ab119338) at 3 µg/ml

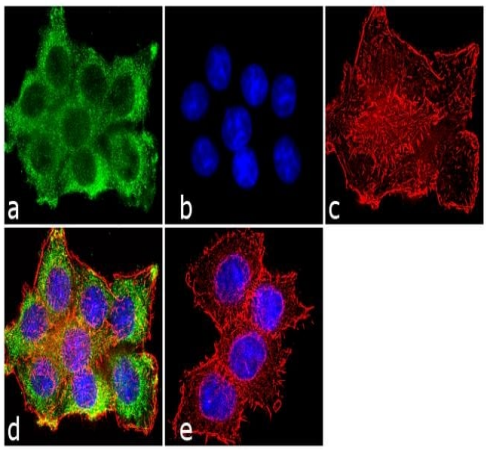
Lane 1 : PANC-1 (human pancreatic epithelial carcinoma cell line) whole cell extract
Lane 2 : HCT 116 (human colorectal carcinoma cell line) whole cell extract
Lane 3 : C2C12 (mouse myoblast cell line) whole cell extract
Lane 4 : HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell extract
Lane 5 : SH-SY5Y (Human neuroblastoma cell line from bone marrow) whole cell extract
Lane 6 : K-562 (human chronic myelogenous leukemia cell line from bone marrow) whole cell extract
Lane 7 : Raji (human Burkitt's lymphoma cell line) whole cell extract

Lysates/proteins at 30 µg per lane.

Secondary

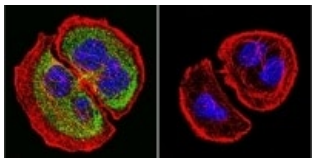
All lanes : Goat anti-Mouse IgG (H+L) Secondary Antibody, HRP conjugate at 1/4000 dilution

Predicted band size: 72 kDa



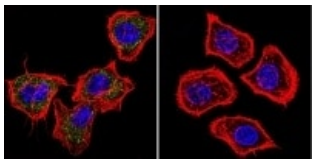
Immunocytochemistry/ Immunofluorescence - Anti-PRC1 antibody [16F2] (ab119338)

Immunocytochemistry analysis of PRC1 using ab119338 at 2µg/mL concentration shows staining in 4% paraformaldehyde-fixed 0.1% Triton X-100 permeabilized HeLa Cells. PRC1 (green), F-Actin staining with Alexa Fluor® 555 Rhodamine Phalloidin (red) and nuclei with SlowFade® Gold Antifade Mountant with DAPI (blue) is shown. Negative control has no primary antibody.



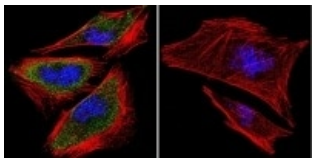
Immunocytochemistry/ Immunofluorescence - Anti-PRC1 antibody [16F2] (ab119338)

Immunofluorescent analysis of PRC1 using PRC1 Monoclonal Antibody (16F2) (ab119338) shows staining in U251 Cells. PRC1 (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with an antibody recognizing PRC1 (ab119338) at a dilution of 1:20 over night at 4^{o}C, washed with PBS and incubated with a DyLight-488 conjugated secondary antibody. Images were taken at 60X magnification.



Immunocytochemistry/ Immunofluorescence - Anti-PRC1 antibody [16F2] (ab119338)

Immunofluorescent analysis of PRC1 using PRC1 Monoclonal Antibody (16F2) (ab119338) shows staining in Hela Cells. PRC1 (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with an antibody recognizing PRC1 (ab119338) at a dilution of 1:100 over night at 4^{o}C, washed with PBS and incubated with a DyLight-488 conjugated secondary antibody. Images were taken at 60X magnification.



Immunocytochemistry/ Immunofluorescence - Anti-PRC1 antibody [16F2] (ab119338)

Immunofluorescent analysis of PRC1 using PRC1 Monoclonal Antibody (16F2) (ab119338) shows staining in A2058 Cells. PRC1 (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with an antibody recognizing PRC1 (ab119338) at a dilution of 1:100 over night at 4 ^{o}C, washed with PBS and incubated with a DyLight-488 conjugated secondary antibody. Images were taken at 60X magnification.

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