abcam

Product datasheet

Anti-CDKN2A/p16INK4a antibody [EPR20418] ab211542

重组 RabMAb

★★★★★ 7 Abreviews 53 References 7 图像

概述

产品名称	Anti-CDKN2A/p16INK4a抗体[EPR20418]
描述	兔单克隆抗体[EPR20418] to CDKN2A/p16INK4a
宿主	Rabbit
特异性	Expression levels of the CDKN2A/p16INK4a protein may vary with sample type. It's barely expressed in normal tissue, and mostly expressed in some tumour tissues, such as cervical cancer, breast cancer and so on. Moreover, only expressed in some cell lines. Please see images for recommended positive controls.
经测试应用	**适用于:** Flow Cyt (Intra), WB, IP, ICC/IF **不适用于:** IHC-P
种属反应性	**与反应:** Mouse **不与反应:** Rat, Human
免疫原	Recombinant full length protein. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: MEF whole cell lysate; His-tagged mouse CDKN2A/p16INK4a recombinant protein, aa1-168. ICC/IF: MEF cells. Flow Cyt (intra): MEF cells. IP: MEF whole cell lysate.
常规说明	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

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 long term. Avoid freeze / thaw cycle.
存储溶液	pH: 7.2 Preservative: 0.01% Sodium azide

	Constituents: 0.05% BSA, 40% Glycerol, PBS
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR20418
同种型	IgG

应用

The Abpromise guarantee Abpromise™承诺保证使用ab211542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
Flow Cyt (Intra)		1/500.
WB	★★★★☆ (2)	1/2000. Detects a band of approximately 16, 14 kDa (predicted molecular weight: 18 kDa).
IP		1/30.
ICC/IF	★★★★★ (2)	1/100.

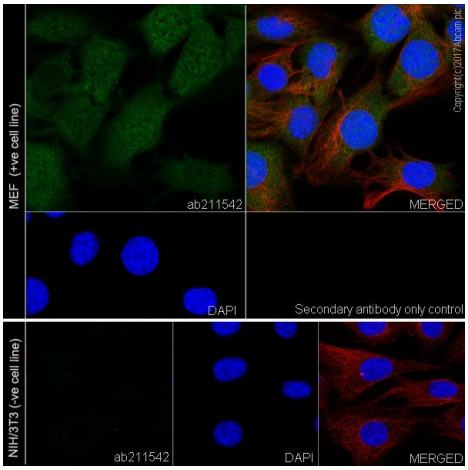
应用说明 Is unsuitable for IHC-P.

靶标

细胞定位 Cytoplasmic and Nuclear

形式 There are 4 isoforms produced by alternative splicing. Isoform 1 also known as: p16INK4a; Isoform 3 also known as: p12; Isoform 4 also known as: p14ARF; p19ARF; ARF.

图片



Immunocytochemistry/ Immunofluorescence - Anti-CDKN2A/p16INK4a antibody [EPR20418] (ab211542)

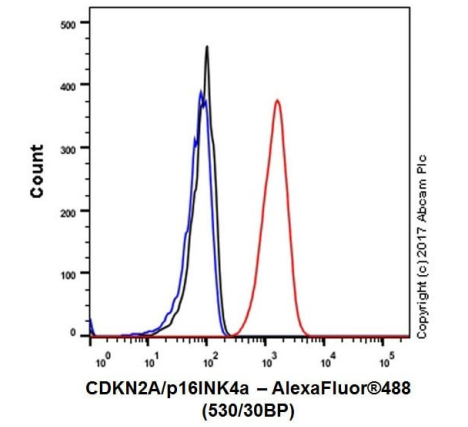
Immunofluorescent analysis of 100% methanol-fixed MEF (mouse embryonic fibroblast cell line) and NIH/3T3 (mouse embyro fibroblast cell line) cells labeling CDKN2A/p16INK4a with ab211542 at 1/100 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1,000 dilution (green). Confocal image showing nuclear and cytoplasmic staining on MEF cell line.

Negative control: NIH/3T3 (PMID: 15210712).

The nuclear counter stain is DAPI (blue). Tubulin is detected with Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) (**ab195889**) (red) at 1/200 dilution.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1,000 dilution.

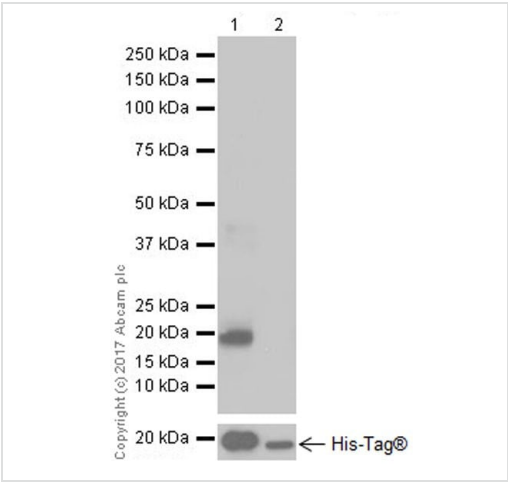
MEF cells were kindly provided by professor Pinlong Xu, Zhejiang University.



Flow Cytometry (Intracellular) - Anti-CDKN2A/p16INK4a antibody [EPR20418] (ab211542)

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed MEF (mouse embryonic fibroblast cell line) cell line labeling CDKN2A/p16INK4awith ab211542 at 1/500 dilution (red) compared with a Rabbit IgG, monoclonal [EPR25A] - Isotype Control (**ab172730**) (black) and an unlabeled control (cells without incubation with primary antibody and secondary antibody) (blue). Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) at 1/2000 dilution was used as the secondary antibody.

MEF cells were kindly provided by professor Pinlong Xu, Zhejiang University.



Western blot - Anti-CDKN2A/p16INK4a antibody [EPR20418] (ab211542)

All lanes : Anti-CDKN2A/p16INK4a antibody [EPR20418] (ab211542) at 1/1000 dilution

Lane 1 : His-tagged mouse CDKN2A/p16INK4a recombinant protein
Lane 2 : His-tagged mouse CDKN2B/p15INK4b recombinant protein

Lysates/proteins at 0.01 µg per lane.

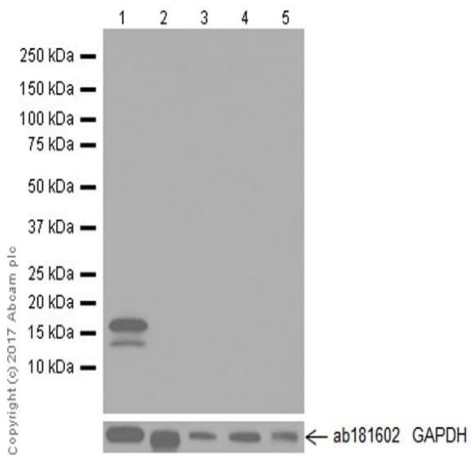
Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Developed using the ECL technique.

Predicted band size: 18 kDa
Observed band size: 18 kDa

Exposure time: 1 second

Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot - Anti-CDKN2A/p16INK4a antibody [EPR20418] (ab211542)

All lanes : Anti-CDKN2A/p16INK4a antibody [EPR20418] (ab211542) at 1/2000 dilution

Lane 1 : MEF (mouse embryonic fibroblast cell line) whole cell lysate
Lane 2 : NIH/3T3 (mouse embryo fibroblast cell line) whole cell lysate
Lane 3 : Mouse lung lysate
Lane 4 : Mouse spleen lysate
Lane 5 : Mouse testis lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Developed using the ECL technique.

Predicted band size: 18 kDa
Observed band size: 14,16 kDa

Exposure time: 3 seconds

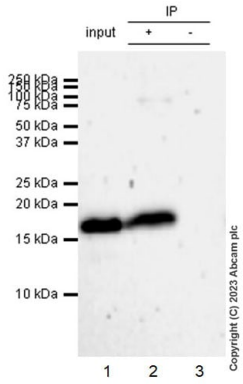
Blocking/Dilution buffer: 5% NFDM/TBST.

Negative control: NIH/3T3 (PMID: 15210712).

Limited expression in mouse normal tissues has been documented in the literature (PMID: 9244355).

14 kDa band is a proteolytic p16INK4a lacking C-terminus (PMID: 18053084).

MEF cells are kindly provided by professor Pinlong Xu, Zhejiang University.

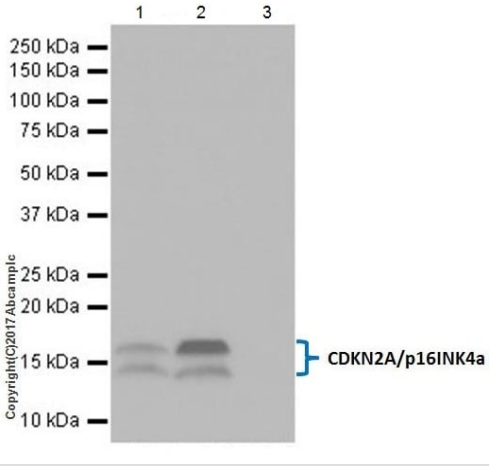


Immunoprecipitation - Anti-CDKN2A/p16INK4a antibody [EPR20418] (ab211542)

CDKN2A/p16INK4a was immunoprecipitated from fresh MEF lysates with ab211542 at 1/30 dilution (2ug in 0.35mg lysates). Lysates were made fresh and used immediately to minimize protein degradation. Western blot was performed on the immunoprecipitate using ab211542 at 1/1000 dilution. VeriBlot for IP secondary antibody(HRP) (**ab131366**) was used at 1/5000 dilution.

Lane 1: MEF (mouse embryo fibroblast) whole cell lysate 10 µg (IP lysis buffer)
Lane 2: MEF (mouse embryo fibroblast) whole cell lysate (IP lysis buffer)
Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab211542 in MEF whole cell lysate (IP lysis buffer)

Blocking and dilution buffer and concentration: 5% NFDM/TBST.



Immunoprecipitation - Anti-CDKN2A/p16INK4a antibody [EPR20418] (ab211542)

CDKN2A/p16INK4a was immunoprecipitated from 0.35 mg of MEF (mouse embryonic fibroblast cell line) whole cell lysate with ab211542 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab211542 at 1/5000 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/10,000 dilution

Lane 1: MEF whole cell lysate 10 µg (Input).

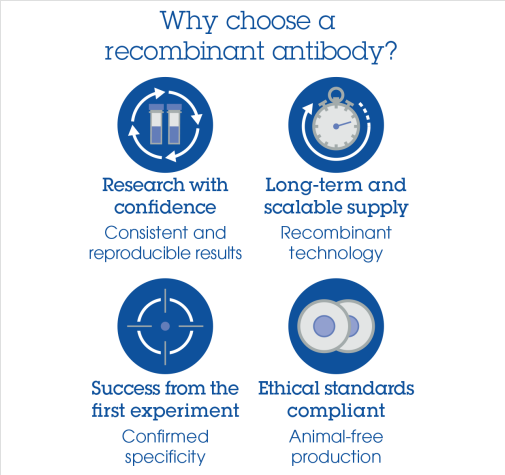
Lane 2: ab211542 IP in MEF whole cell lysate.

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab211542 in MEF whole cell lysate.

Blocking/Dilution buffer: 5% NFDM/TBST.

Exposure time: 30 seconds.

MEF cells were kindly provided by professor Pinlong Xu, Zhejiang University.



Anti-CDKN2A/p16INK4a antibody [EPR20418]

(ab211542)

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