abcam

Product datasheet

Anti-ERK1 (phospho T202) + ERK2 (phospho T185) antibody [EPR18444] - BSA and Azide free ab222493

重组 RabMAb

2 References 12 图像

概述

产品名称	Anti-ERK1 (phospho T202) + ERK2 (phospho T185)抗体[EPR18444] - BSA and Azide free
描述	兔单克隆抗体[EPR18444] to ERK1 (phospho T202) + ERK2 (phospho T185) - BSA and Azide free
宿主	Rabbit
经测试应用	**适用于:** IHC-P, ICC/IF, IP, WB, Dot blot
种属反应性	**与反应:** Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: Jurkat treated with 200 ng/ml PMA for 30 minutes whole cell lysate; NIH/3T3 treated with 50 ng/ml PDGF for 40 minutes whole cell lysate; PC-12 treated with 200 ng/ml NGF for 4 days whole cell lysate. IHC-P: Human breast, placenta, breast cancer and glioma tissues; mouse kidney tissue; rat spleen tissue. ICC/IF: Jurkat cells treated with PMA treatment (200 ng/ml, 30min). IP: Jurkat treated with 200 ng/ml PMA for 30 minutes cell lysate; PC-12 treated with 200 ng/ml NGF for 4 days cell lysate.
常规说明	ab222493 is the carrier-free version of **ab214036**. Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications. Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc. 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. Do Not Freeze.
存储溶液	pH: 7.2 Constituent: PBS
无载体	是
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR18444
同种型	IgG

应用

The Abpromise guarantee Abpromise™承诺保证使用ab222493于以下的经测试应用

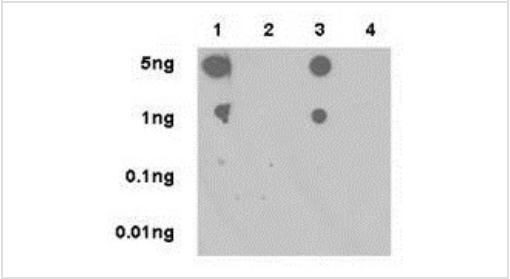
"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF		Use at an assay dependent concentration.
IP		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Detects a band of approximately 44, 42 kDa (predicted molecular weight: 43, 41 kDa).
Dot blot		Use at an assay dependent concentration.

靶标

细胞定位	ERK2: Nucleus.

图片

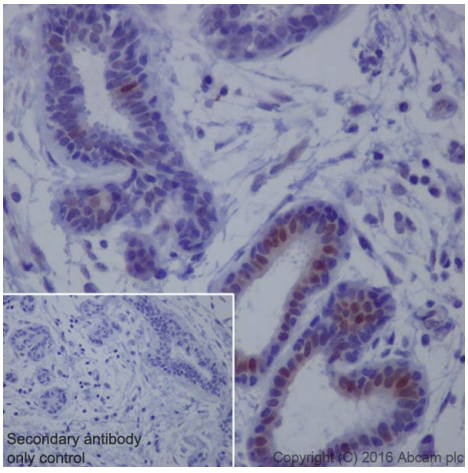


Dot Blot - Anti-ERK1 (phospho T202) + ERK2 (phospho T185) antibody [EPR18444] - BSA and Azide free (ab222493)

Dot blot analysis of ERK1 (pT202) peptide (Lane 1), ERK1 (pT204) peptide (Lane 2), ERK1 (pT202 + pT204) peptide (Lane 3) and ERK1 non-phospho peptide (Lane 4) labelling ERK1 (pT202) with **ab214036**.

Exposure time: 3 minutes.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab214036**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ERK1 (phospho T202) + ERK2 (phospho T185) antibody [EPR18444] - BSA and Azide free (ab222493)

Immunohistochemical analysis of paraffin-embedded human breast tissue labeling ERK1 (phospho T202) + ERK2 (phospho T185) with **ab214036** at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

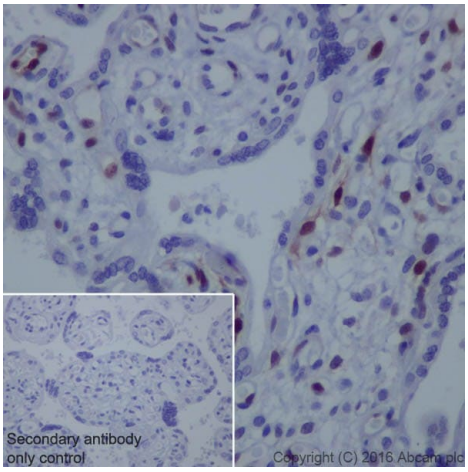
Nuclear staining on human normal breast tissue is observed.

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab214036**).

Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ERK1 (phospho T202) + ERK2 (phospho T185) antibody [EPR18444] - BSA and Azide free (ab222493)

Immunohistochemical analysis of paraffin-embedded human placenta tissue labeling ERK1 (phospho T202) + ERK2 (phospho T185) with **ab214036** at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

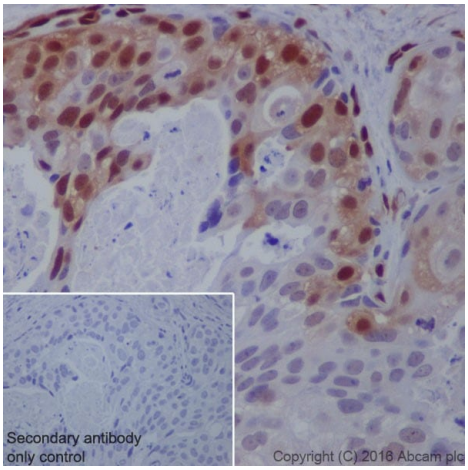
Nuclear and weak cytoplasmic staining on scattered cells of human placenta is observed.

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab214036**).

Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ERK1 (phospho T202) + ERK2 (phospho T185) antibody [EPR18444] - BSA and Azide free (ab222493)

Immunohistochemical analysis of paraffin-embedded human breast cancer tissue labeling ERK1 (phospho T202) + ERK2 (phospho T185) with **ab214036** at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

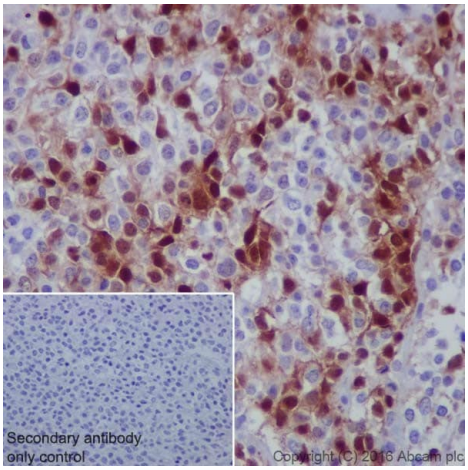
Nuclear and weak cytoplasmic staining on human breast tissue cancer is observed.

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab214036**).

Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ERK1 (phospho T202) + ERK2 (phospho T185) antibody [EPR18444] - BSA and Azide free (ab222493)

Immunohistochemical analysis of paraffin-embedded human glioma tissue labeling ERK1 (phospho T202) + ERK2 (phospho T185) with **ab214036** at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

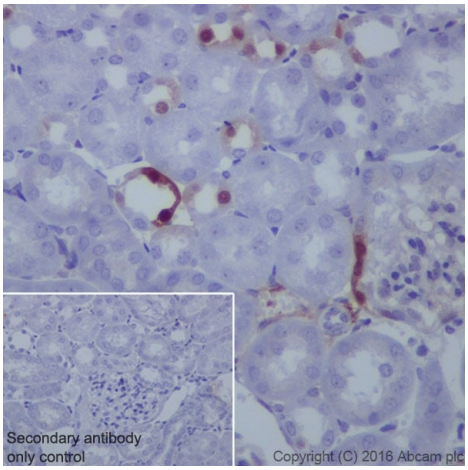
Nuclear and weak cytoplasmic staining on human glioma is observed [PMID:17487353].

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab214036**).

Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ERK1 (phospho T202) + ERK2 (phospho T185) antibody [EPR18444] - BSA and Azide free (ab222493)

Immunohistochemical analysis of paraffin-embedded mouse kidney tissue labeling ERK1 (phospho T202) + ERK2 (phospho T185) with **ab214036** at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

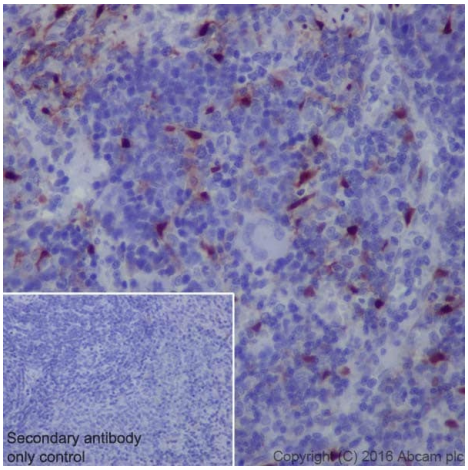
Nuclear and weak cytoplasmic staining on scattered cells of mouse kidney is observed.

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab214036**).

Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ERK1 (phospho T202) + ERK2 (phospho T185) antibody [EPR18444] - BSA and Azide free (ab222493)

Immunohistochemical analysis of paraffin-embedded rat spleen tissue labeling ERK1 (phospho T202) + ERK2 (phospho T185) with **ab214036** at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

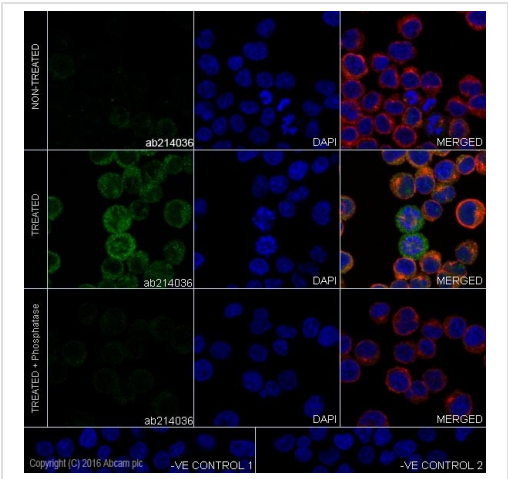
Nuclear and weak cytoplasmic staining on scattered cells of rat spleen is observed.

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab214036**).

Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-ERK1 (phospho T202) + ERK2 (phospho T185) antibody [EPR18444] - BSA and Azide free (ab222493)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized Jurkat (Human T cell leukemia cell line from peripheral blood) cells labeling -ERK1 (phospho T202) + ERK2 (phospho T185) with **ab214036** at 1/100 dilution, followed by Goat Anti-Rabbit IgG (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution (green). Confocal image showing cytoplasmic staining increased after PMA treatment (200 ng/ml, 30min), and LP treatment decreased the PMA induced staining.

The nuclear counterstain is DAPI (blue).

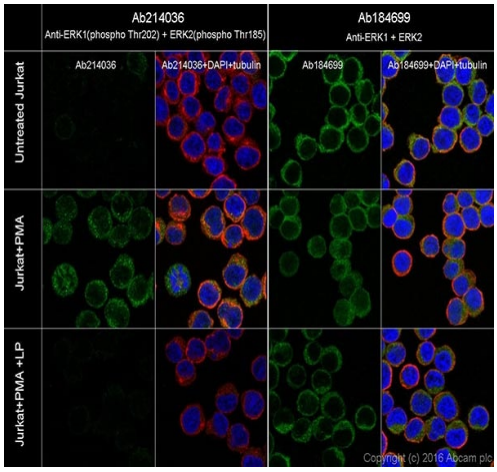
Tubulin is detected with Anti-alpha Tubulin mouse MAb (**ab7291**) at 1/1000 dilution, followed by Anti-Mouse IgG H&L (Alexa Fluor® 594) (**ab150120**) secondary antibody at 1/1000 dilution (red).

The negative controls are as follows:-

-ve control 1: **ab214036** at 1/100 dilution followed by Anti-Mouse IgG H&L (Alexa Fluor® 594) (**ab150120**) secondary antibody at 1/1000 dilution.

-ve control 2: Anti-alpha Tubulin mouse MAb (**ab7291**) at 1/1000 dilution followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab214036**).

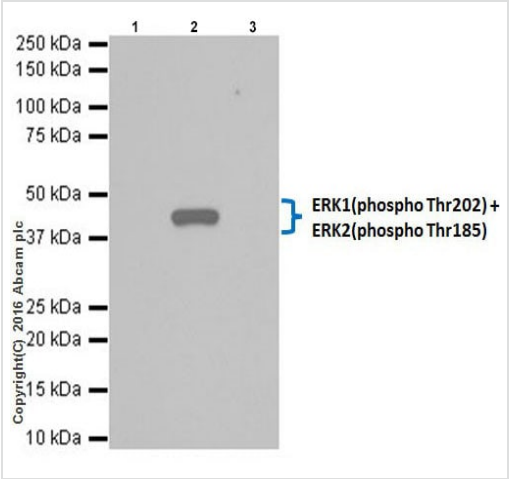


Immunocytochemistry/ Immunofluorescence - Anti-ERK1 (phospho T202) + ERK2 (phospho T185) antibody [EPR18444] - BSA and Azide free (ab222493)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized Jurkat (Human T cell leukemia cell line from peripheral blood) cells labeling ERK1 (phospho T202) + ERK2 (phospho T185) with **ab214036** at 1/100 dilution, followed by Goat Anti-Rabbit IgG (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution (green). Confocal image showing cytoplasmic staining increased after PMA treatment (200 ng/ml, 30min), and LP treatment decreased the PMA induced staining. For the “pan” antibody, the signal is unchanged after PMA treatment (200 ng/ml, 30min), and LP treatment. The nuclear counterstain is DAPI (blue).

Tubulin is detected with Anti-alpha Tubulin mouse MAb (**ab7291**) at 1/1000 dilution and Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) (**ab150120**) secondary antibody at 1/1000 dilution (red).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab214036**).



Immunoprecipitation - Anti-ERK1 (phospho T202) + ERK2 (phospho T185) antibody [EPR18444] - BSA and Azide free (ab222493)

ERK1 (phospho T202) + ERK2 (phospho T185) was immunoprecipitated from 0.35 mg of Jurkat (Human T cell leukemia cell line from peripheral blood) treated with 200 ng/ml PMA for 30 minutes whole cell lysate with **ab214036** at 1/40 dilution.

Western blot was performed from the immunoprecipitate using **ab214036** at 1/1000 dilution.

VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/10000 dilution.

Lane 1: Jurkat treated with 200 ng/ml PMA for 30 minutes whole cell lysate 10µg (Input).

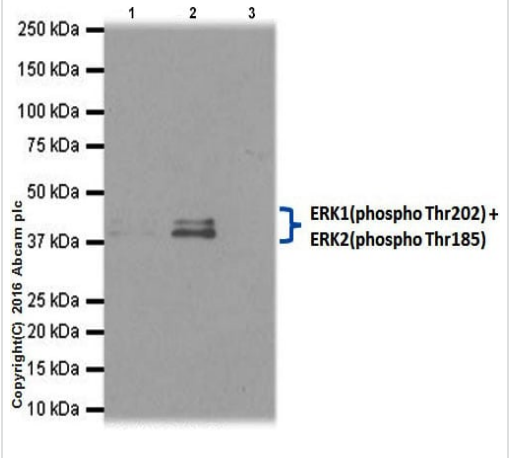
Lane 2: **ab214036** IP in Jurkat treated with 200 ng/ml PMA for 30 minutes whole cell lysate.

Lane 3: Rabbit IgG, monoclonal [EPR25A] - Isotype Control (**ab172730**) instead of **ab214036** in Jurkat treated with 200 ng/ml PMA for 30 minutes whole cell lysate.

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

Exposure time: 3 minutes.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab214036**).



Immunoprecipitation - Anti-ERK1 (phospho T202) + ERK2 (phospho T185) antibody [EPR18444] - BSA and Azide free (ab222493)

ERK1 (phospho T202) + ERK2 (phospho T185) was immunoprecipitated from 0.35 mg of PC-12 (Rat adrenal gland pheochromocytoma cell line) treated with 200 ng/ml NGF for 4 days whole cell lysate with **ab214036** at 1/40 dilution.

Western blot was performed from the immunoprecipitate using **ab214036** at 1/1000 dilution.

VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/1000 dilution.

Lane 1: PC-12 treated with 200 ng/ml NGF for 4 days whole cell lysate 10µg (Input).

Lane 2: **ab214036** IP in PC-12 treated with 200 ng/ml NGF for 4 days whole cell lysate.

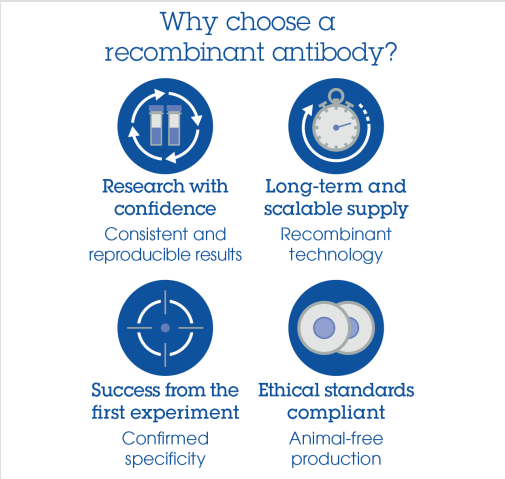
Lane 3: Rabbit IgG, monoclonal [EPR25A] - Isotype Control (**ab172730**) instead of **ab214036** in PC-12 treated with 200 ng/ml NGF for 4 days whole cell lysate.

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

Exposure time: 30 seconds.

This data was developed using the same antibody clone in a

different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab214036**).



Anti-ERK1 (phospho T202) + ERK2 (phospho T185) antibody [EPR18444] - BSA and Azide free (ab222493)

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