

# Anti-ERK1 (phospho T202) + ERK2 (phospho T185) antibody [EPR19401] ab201015

リコンビナント **RabMAb**

★★★★☆ **4 Abreviews**   **157 References**   画像数 9

### 製品の概要

製品名	Anti-ERK1 (phospho T202) + ERK2 (phospho T185) antibody [EPR19401]
製品の詳細	Rabbit monoclonal [EPR19401] to ERK1 (phospho T202) + ERK2 (phospho T185)
由来種	Rabbit
アプリケーション	<b>適用あり:</b> ICC/IF, IP, IHC-P, WB, Dot blot
種交差性	<b>交差種:</b> Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: Jurkat, treated with 200 ng/ml PMA for 30 minutes whole cell lysate; NIH/3T3, untreated and treated with 50 ng/ml PDGF for 40 minutes whole cell lysates; PC-12, untreated and treated with 200 ng/ml NGF for 4 days whole cell lysates. IHC-P: Human breast and glioma tissues. IP: NIH/3T3 treated with 50ng/ml PDGF for 40min whole cell lysate; PC-12 treated with 100ng/ml NGF for 10min whole cell lysate. ICC/IF: Jurkat
特記事項	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

### 製品の特性

製品の状態	Liquid
保存方法	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.
バッファー	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 59% PBS, 0.05% BSA, 40% Glycerol</p>
精製度	Protein A purified

ポリ/モノ	モノクローナル
クローン名	EPR19401
アイソタイプ	IgG

### アプリケーション

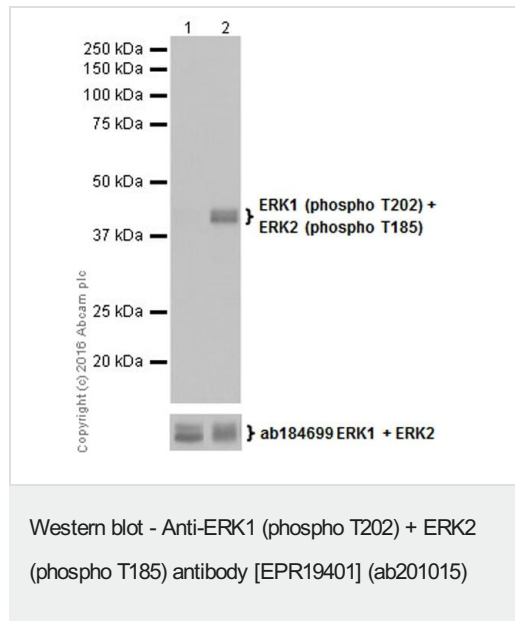
**The Abpromise guarantee**      **Abpromise保証は、**次のテスト済みアプリケーションにおけるab201015の使用に適用されます  
 アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
ICC/IF	★★★★★ (3)	Use at an assay dependent concentration.
IP		1/30.
IHC-P		1/100. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. IHC is recommended for human only.
WB	★★★★★ (1)	1/1000. Detects a band of approximately 44, 42 kDa (predicted molecular weight: 41 kDa).
Dot blot		1/1000.

### ターゲット情報

細胞内局在                      ERK2: Nucleus.

### 画像



**All lanes :** Anti-ERK1 (phospho T202) + ERK2 (phospho T185) antibody [EPR19401] (ab201015) at 1/1000 dilution

**Lane 1 :** Untreated Jurkat (Human T cell leukemia cell line from peripheral blood) whole cell lysate

**Lane 2 :** Jurkat (Human T cell leukemia cell line from peripheral blood) treated with 200 ng/ml PMA for 30 minutes whole cell lysate

Lysates/proteins at 20 µg per lane.

#### Secondary

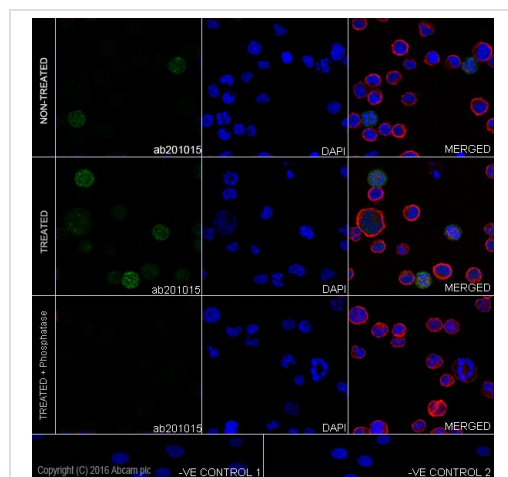
**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

**Predicted band size:** 41 kDa

**Observed band size:** 42,44 kDa

**Exposure time:** 15 seconds

Blocking/Dilution buffer: 5% NFDM/TBST.



Immunocytochemistry/ Immunofluorescence - Anti-  
ERK1 (phospho T202) + ERK2 (phospho T185)  
antibody [EPR19401] (ab201015)

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) and ERK2 (phospho T185)

ERK1 (phospho T202) + ERK2 (phospho T185) with ab201015 at 1/500 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) ([ab150077](#)) secondary antibody at 1/1000 dilution (green).

Confocal image showing staining on M phase cells (PMID:26529125). After PMA treatment (200 ng/ml, 30min), the staining was increased, and LP treatment decreased the PMA induced staining.

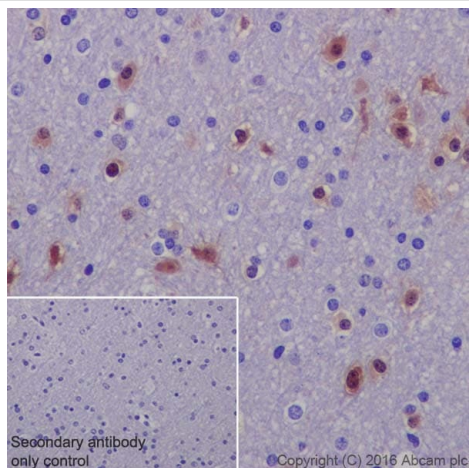
The nuclear counter stain is DAPI (blue).

Tubulin is detected with [ab7291](#) (anti-Tubulin mouse mAb) at 1/1000 dilution and [ab150120](#) (Alexa Fluor® 594 Goat anti-Mouse secondary) at 1/1000 dilution (red).

The negative controls are as follows:

-ve control 1: ab201015 at 1/500 dilution followed by [ab150120](#) (Alexa Fluor® 594 Goat anti-Mouse secondary) at 1/1000 dilution.

-ve control 2: [ab7291](#) (anti-Tubulin mouse mAb) at 1/1000 dilution followed by [ab150077](#) (Alexa Fluor® 488 Goat Anti-Rabbit IgG H&L) at 1/1000 dilution.

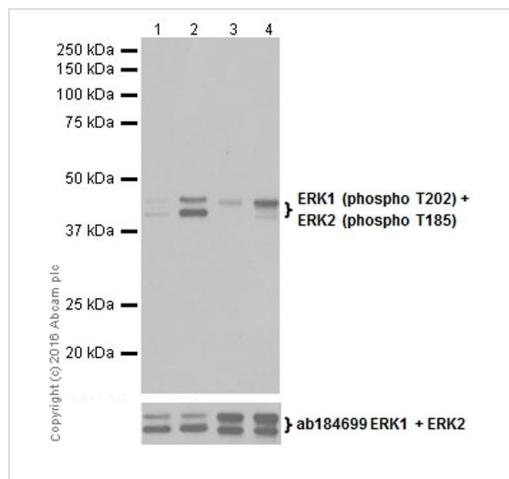


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ERK1 (phospho T202) + ERK2 (phospho T185) antibody [EPR19401] (ab201015)

Immunohistochemical analysis of paraffin-embedded Human glioma tissue labeling ERK2 (phospho T185) with ab201015 at 1/100 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Nuclear with weak cytoplasm staining on Human glioma is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is **ab97051** at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Western blot - Anti-ERK1 (phospho T202) + ERK2 (phospho T185) antibody [EPR19401] (ab201015)

**All lanes** : Anti-ERK1 (phospho T202) + ERK2 (phospho T185) antibody [EPR19401] (ab201015) at 1/1000 dilution

**Lane 1** : Untreated NIH/3T3 (Mouse embryonic fibroblast cell line) whole cell lysate

**Lane 2** : NIH/3T3 (Mouse embryonic fibroblast cell line) treated with 50 ng/ml PDGF for 40 minutes whole cell lysate

**Lane 3** : Untreated PC-12 (Rat adrenal gland pheochromocytoma cell line) whole cell lysate

**Lane 4** : PC-12 (Rat adrenal gland pheochromocytoma cell line) treated with 200 ng/ml NGF for 4 days whole cell lysate

Lysates/proteins at 20 µg per lane.

### Secondary

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

**Predicted band size:** 41 kDa

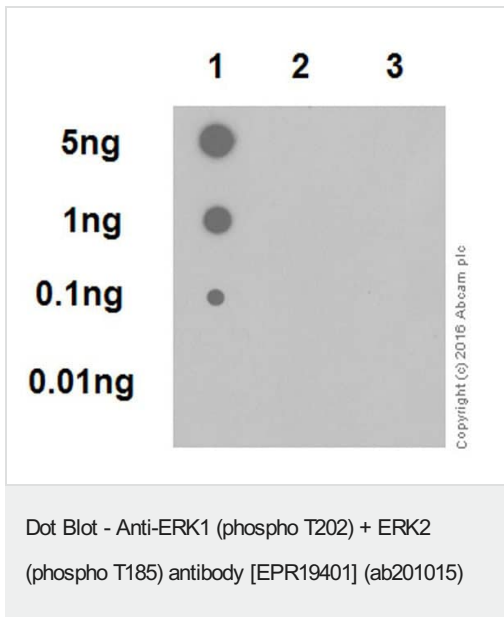
**Observed band size:** 42,44 kDa

**Exposure time:** 10 seconds

Blocking/Dilution buffer: 5% NFDM/TBST.

The induction conditions refer to PMID:12454035; PMID:17026715;

PMID:22206868.



Dot blot analysis of ERK2 (phospho T185) labeled with ab201015 at 1/1000 dilution.

**Lane 1:** ERK2 (pT185) phospho peptide: DHTGFLT(p)EYVATR aa179-191 peptide.

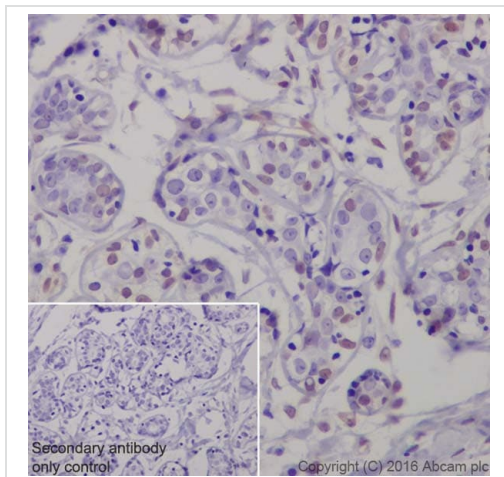
**Lane 2:** ERK2 Non-phospho peptide: DHTGFLTEYVATR aa179-191 peptide.

**Lane 3:** ERK2 (pY187) phospho peptide: DHTGFLTEY(p)VATR aa179-191 peptide.

Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (**ab97051**) at 1/100000 dilution was used as secondary antibody.

**Blocking/Dilution buffer:** 5% NFDM/TBST.

**Exposure time:** 3 minutes.

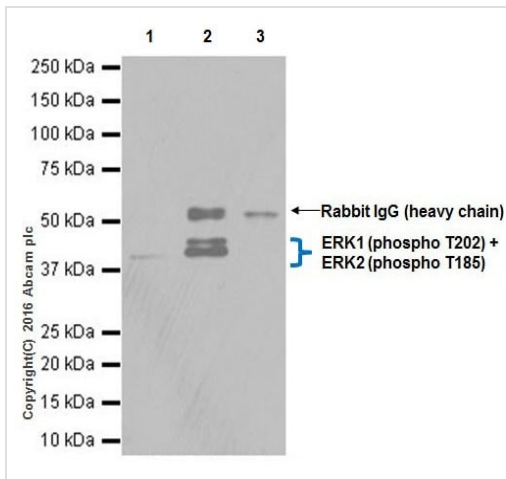


Immunohistochemical analysis of paraffin-embedded Human breast tissue labeling ERK2 (phospho T185) with ab201015 at 1/100 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Nuclear staining on Human breast is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is **ab97051** at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ERK1 (phospho T202) + ERK2 (phospho T185) antibody [EPR19401] (ab201015)



Immunoprecipitation - Anti-ERK1 (phospho T202) +  
ERK2 (phospho T185) antibody [EPR19401]  
(ab201015)

ERK2 (phospho T185) was immunoprecipitated from 0.35 mg of NIH/3T3 (Mouse embryonic fibroblast cell line) treated with 50ng/ml PDGF for 40min whole cell lysate with ab201015 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab201015 at 1/1000 dilution. VeriBlot for IP Detection Reaction (HRP) ([ab131366](#)), was used for detection at 1/1000 dilution.

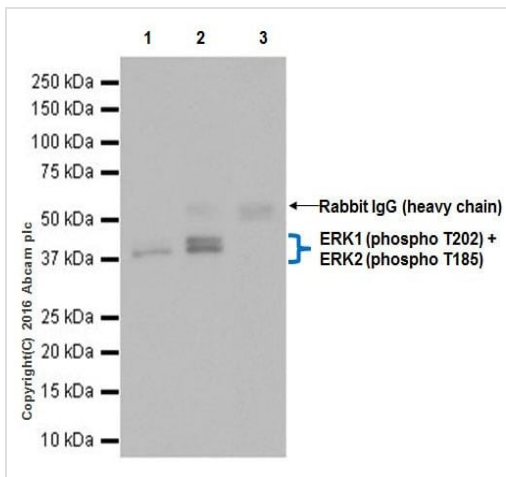
Lane 1: NIH/3T3 treated with 50ng/ml PDGF for 40min whole cell lysate, 10µg (Input).

Lane 2: ab201015 IP in NIH/3T3 treated with 50ng/ml PDGF for 40min whole cell lysate.

Lane 3: Rabbit IgG, monoclonal [EPR25A]-Isotype Control ([ab172730](#)) instead of ab201015 in NIH/3T3 treated with 50ng/ml PDGF for 40min whole cell lysate.

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

Exposure time: 3 minutes.



Immunoprecipitation - Anti-ERK1 (phospho T202) +  
ERK2 (phospho T185) antibody [EPR19401]  
(ab201015)

ERK2 (phospho T185) was immunoprecipitated from 0.35 mg of PC-12 (Rat adrenal gland pheochromocytoma cell line) treated with 100ng/ml NGF for 10min whole cell lysate with ab201015 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab201015 at 1/1000 dilution. VeriBlot for IP Detection Reaction (HRP) ([ab131366](#)), was used for detection at 1/1000 dilution.

Lane 1: PC-12 treated with 100ng/ml NGF for 10min whole cell lysate, 10µg (Input).

Lane 2: ab201015 IP in PC-12 treated with 100ng/ml NGF for 10min whole cell lysate.

Lane 3: Rabbit IgG, monoclonal [EPR25A]-Isotype Control ([ab172730](#)) instead of ab201015 in PC-12 treated with 100ng/ml NGF for 10min whole cell lysate

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

Exposure time: 3 minutes.

### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-ERK1 (phospho T202) + ERK2 (phospho T185)  
antibody [EPR19401] (ab201015)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

### Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.co.jp/abpromise> or contact our technical team.

### Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors