

### Anti-eIF2A antibody [EPR11042] ab169528

KO 評価済 リコンビナント RabMAb

★★★★★ **5 Abreviews** **27 References** **画像数 13**

#### 製品の概要

|              |  |
|--------------|--|
| 製品名          | Anti-eIF2A antibody [EPR11042]   |
| 製品の詳細        | Rabbit monoclonal [EPR11042] to eIF2A  |
| 由来種          | Rabbit   |
| アプリケーション     | <b>適用あり:</b> WB, IHC-P, ICC/IF<br><b>適用なし:</b> Flow Cyt or IP  |
| 種交差性         | <b>交差種:</b> Mouse, Rat, Human  |
| 免疫原          | Synthetic peptide corresponding to Human eIF2A aa 450-550.   |
| ポジティブ・コントロール | WB: Molt4, Ramos, HAP1, PC-12, and NIH/3T3 lysates. IHC-P: Human pancreas, Human prostatic hyperplasia, Human lung cancer, Mouse cerebrum, and Rat cerebrum tissues. ICC/IF: HeLa cells, MCF7 cells.   |
| 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   | Preservative: 0.01% Sodium azide<br>Constituents: 59% PBS, 40% Glycerol, 0.05% BSA  |
| 精製度     | Protein A purified  |
| ポリクローナル | モノクローナル   |
| クローン名   | EPR11042  |

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ab169528の使用に適用されず**  
 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  |
|----------|-----------|---|
| WB       | ★★★★★ (3) | 1/1000 - 1/5000. Detects a band of approximately 65 kDa (predicted molecular weight: 65 kDa). |
| IHC-P    | ★★★★★ (1) | 1/50 - 1/100. Perform heat mediated antigen retrieval.  |
| ICC/IF   |           | 1/100.  |

追加情報 Is unsuitable for Flow Cyt or IP.

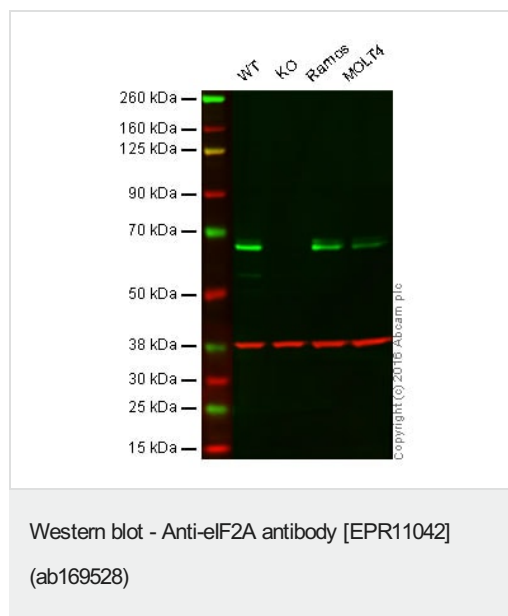
ターゲット情報

**機能** Functions in the early steps of protein synthesis of a small number of specific mRNAs. Acts by directing the binding of methionyl-tRNAi to 40S ribosomal subunits. In contrast to the eIF-2 complex, it binds methionyl-tRNAi to 40 S subunits in a codon-dependent manner, whereas the eIF-2 complex binds methionyl-tRNAi to 40 S subunits in a GTP-dependent manner. May act by impinging the expression of specific proteins.

**組織特異性** Widely expressed. Expressed at higher level in pancreas, heart, brain and placenta.

**配列類似性** Belongs to the WD repeat EIF2A family. Contains 3 WD repeats.

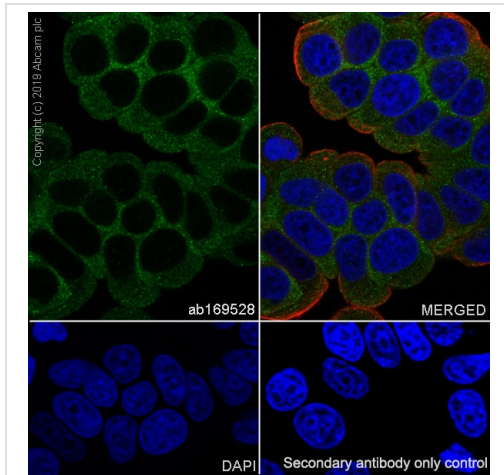
画像



**Lane 1:** Wild-type HAP1 cell lysate (20 µg)  
**Lane 2:** eIF2A knockout HAP1 cell lysate (20 µg)  
**Lane 3:** Ramos cell lysate (20 µg)  
**Lane 4:** MOLT4 cell lysate (20 µg)  
**Lanes 1 - 4:** Merged signal (red and green). Green - ab169528 observed at 65 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

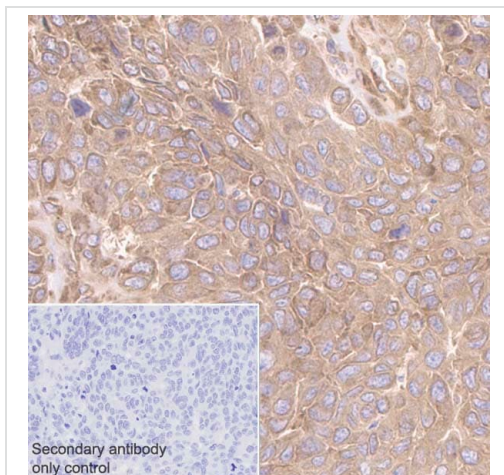
ab169528 was shown to specifically react with eIF2A when eIF2A knockout samples were used. Wild-type and eIF2A knockout samples were subjected to SDS-PAGE. ab169528 and **ab8245** (loading control to GAPDH) were diluted at 1/1000 and 1/10 000 respectively and incubated overnight at 4°C. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD)

preadsorbed (**ab216776**) secondary antibodies at 1/10 000 dilution for 1 h at room temperature before imaging.



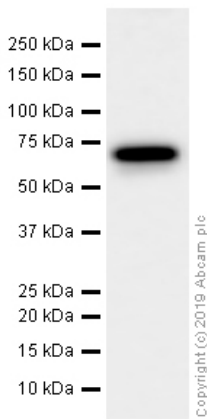
Immunocytochemistry/ Immunofluorescence - Anti-eIF2A antibody [EPR11042] (ab169528)

Immunocytochemistry/ Immunofluorescence analysis of MCF7 (Human breast adenocarcinoma epithelial cell) cells labeling eIF2A with Purified ab169528 at 1:100 dilution (4.3 µg/ml). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with Ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1:200 (2.5 µg/ml). Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) was used as the secondary antibody at 1:1000 (2 µg/ml) dilution. DAPI (blue) was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-eIF2A antibody [EPR11042] (ab169528)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human lung cancer tissue sections labeling eIF2A with ab169528 at 1/200 dilution (12.52 µg/ml). Heat mediated antigen retrieval was performed. ImmunoHistoProbe one step HRP Polymer (ready to use) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



Western blot - Anti-eIF2A antibody [EPR11042]  
(ab169528)

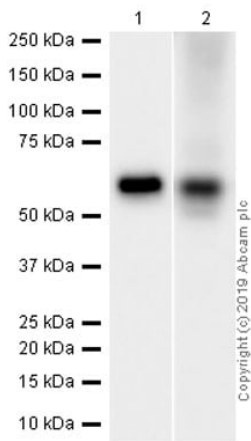
Anti-eIF2A antibody [EPR11042] (ab169528) at 1/1000 dilution  
(Purified) + NIH/3T3 (Mouse embryonic fibroblast) whole cell lysates  
at 15 µg

**Secondary**

Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

**Predicted band size:** 65 kDa

**Observed band size:** 65 kDa



Western blot - Anti-eIF2A antibody [EPR11042]  
(ab169528)

**All lanes :** Anti-eIF2A antibody [EPR11042] (ab169528) at 1/1000 dilution (Purified)

**Lane 1 :** Ramos (Human Burkitt's lymphoma Blymphocyte) whole cell lysates

**Lane 2 :** PC-12 (Rat adrenal gland pheochromocytoma) whole cell lysates

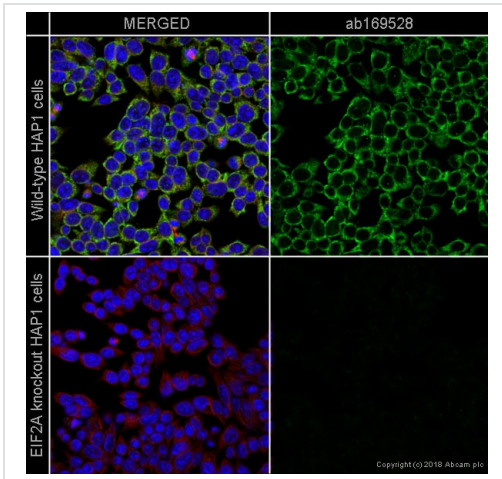
Lysates/proteins at 20 µg per lane.

**Secondary**

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

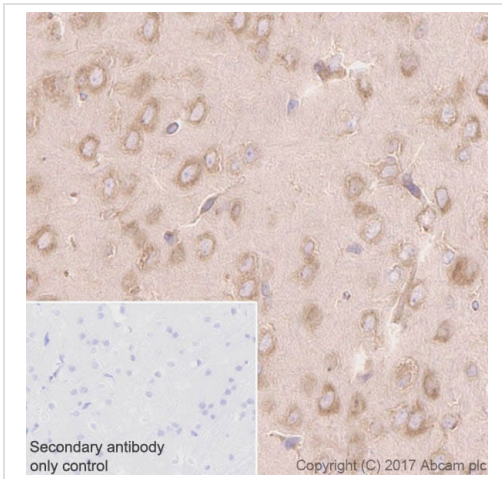
**Predicted band size:** 65 kDa

**Observed band size:** 65 kDa



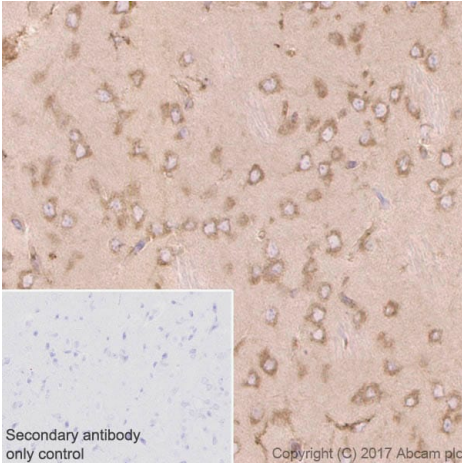
Immunocytochemistry/ Immunofluorescence - Anti-eIF2A antibody [EPR11042] (ab169528)

ab169528 staining eIF2A in wild-type HAP1 cells (top panel) and EIF2A knockout HAP1 cells (bottom panel). The cells were fixed with 100% methanol for 5 minutes, permeabilized with 0.1% Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1 hour. The cells were then incubated with ab169528 at 1µg/ml and [ab195889](#) at 1/250 dilution (shown in pseudo colour red) overnight at +4°C, followed by a further incubation at room temperature for 1 hour with [Goat Anti-Rabbit IgG H&L \(Alexa Fluor® 488\) preadsorbed \(ab150081\) secondary antibody](#) at 2 µg/ml (shown in green). Nuclear DNA was labelled in blue with DAPI.



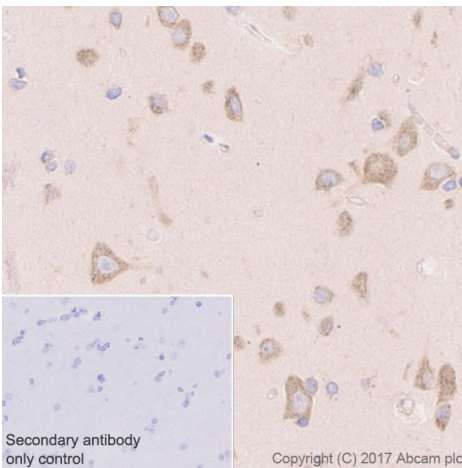
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-eIF2A antibody [EPR11042] (ab169528)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Rat cerebrum tissue sections labeling eIF2A with ab169528 at 1/200 dilution (12.52 µg/ml). Heat mediated antigen retrieval was performed. ImmunoHistoProbe one step HRP Polymer (ready to use) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



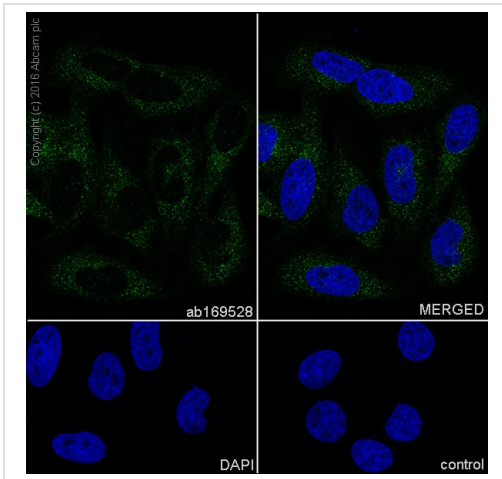
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Mouse cerebrum tissue sections labeling eIF2A with ab169528 at 1/200 dilution (12.52 µg/ml). Heat mediated antigen retrieval was performed. ImmunoHistoProbe one step HRP Polymer (ready to use) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-eIF2A antibody  
[EPR11042] (ab169528)



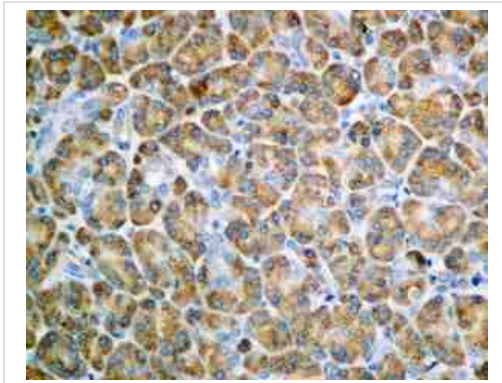
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human cerebrum tissue sections labeling eIF2A with ab169528 at 1/200 dilution (12.52 µg/ml). Heat mediated antigen retrieval was performed. ImmunoHistoProbe one step HRP Polymer (ready to use) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-eIF2A antibody  
[EPR11042] (ab169528)



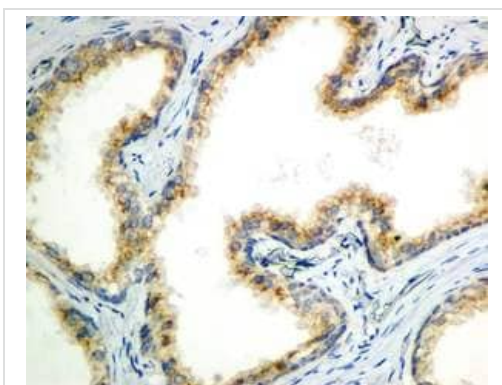
Immunocytochemistry/ Immunofluorescence - Anti-eIF2A antibody [EPR11042] (ab169528)

Immunocytochemistry/Immunofluorescence analysis of HeLa (Human epithelial cell line from cervix adenocarcinoma) labeling eIF2A with purified ab169528 at 1/250 dilution. Cells were fixed with 4% PFA and permeabilized with 0.1% tritonX-100. **ab150077** Goat anti rabbit IgG (Alexa Fluor®488) at 1/1000 was used as the secondary antibody. Nuclei were counterstained with DAPI. PBS was used instead of the primary antibody as the negative control.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-eIF2A antibody [EPR11042] (ab169528)

Immunohistochemical analysis of paraffin embedded Human pancreas tissue labeling eIF2A with unpurified ab169528 antibody at 1/50.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-eIF2A antibody [EPR11042] (ab169528)

Immunohistochemical analysis of paraffin embedded Human prostatic hyperplasia tissue labeling eIF2A with unpurified ab169528 antibody at 1/50.

### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



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



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Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-eIF2A antibody [EPR11042] (ab169528)

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