abcam

Product datasheet

Anti-eIF4E antibody [Y448] ab33766

リコンビナント RabMAb

★★★★★ 8 Abreviews 13 References 画像数 14

製品の概要

製品名	Anti-eIF4E antibody [Y448]
製品の詳細	Rabbit monoclonal [Y448] to eIF4E
由来種	Rabbit
特異性	The antibody detects a band on western blot of approximately 28 kDa.
アプリケーション	**適用あり:** Flow Cyt (Intra), ICC/IF, IP, WB, IHC-P
種交差性	**交差種:** Mouse, Rat, Human
免疫原	Synthetic peptide within Human eIF4E aa 1-100 (N terminal). The exact sequence is proprietary.
ポジティブ・コントロール	WB: 293, HEK-293, and MCF7 cell lysates, Human brain tissue lysate IHC-P: human breast carcinoma, Human cervical carcinoma and Mouse stomachICC/IF: RAW 264.7 cells Flow Cyt (intra): HEK-293 cells
特記事項	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**.

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
バッファー	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 49% PBS, 50% Glycerol (glycerin, glycerine), 0.05% BSA
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	Y448

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ab33766の使用に適用されます

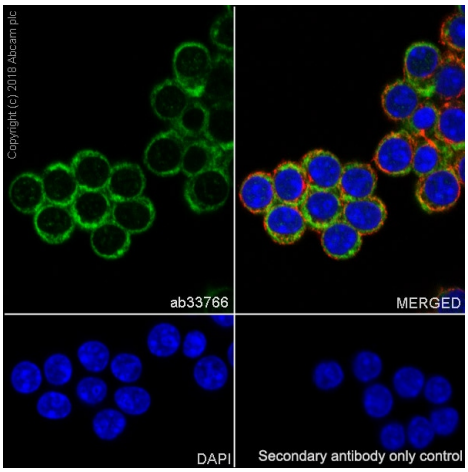
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
Flow Cyt (Intra)		Use 1µg for 10^6 cells. **ab172730** - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
ICC/IF		1/250 - 1/500.
IP	★☆☆☆☆ (1)	1/20.
WB	★★★★★ (6)	1/1000. Detects a band of approximately 30 kDa (predicted molecular weight: 25 kDa). **For unpurified use at 1/500**
IHC-P		1/100. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. See **IHC antigen retrieval protocols**.

ターゲット情報

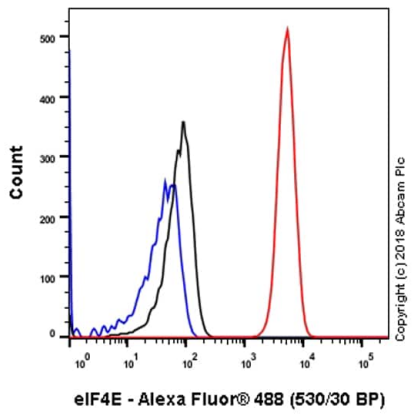
機能	Its translation stimulation activity is repressed by binding to the complex CYFIP1-FMR1 (By similarity). Recognizes and binds the 7-methylguanosine-containing mRNA cap during an early step in the initiation of protein synthesis and facilitates ribosome binding by inducing the unwinding of the mRNAs secondary structures. Component of the CYFIP1-EIF4E-FMR1 complex which binds to the mRNA cap and mediates translational repression. In the CYFIP1-EIF4E-FMR1 complex this subunit mediates the binding to the mRNA cap.
配列類似性	Belongs to the eukaryotic initiation factor 4E family.
翻訳後修飾	Phosphorylation increases the ability of the protein to bind to mRNA caps and to form the eIF4F complex.

画像



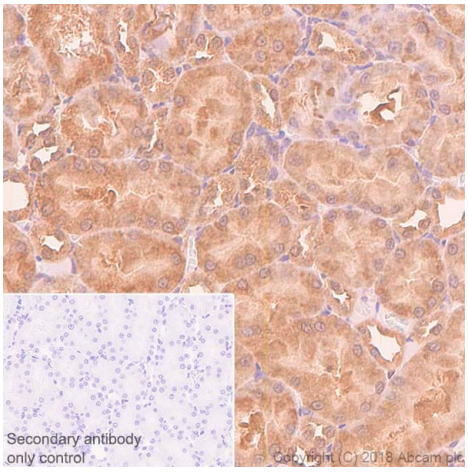
Immunocytochemistry/ Immunofluorescence - Anti-eIF4E antibody [Y448] (ab33766)

Immunocytochemistry/ Immunofluorescence analysis of RAW 264.7 (Mouse Abelson murine leukemia virus-induced tumor macrophage) cells labeling eIF4E with Purified ab33766 at 1:500 dilution (0.3 µg/ml). Cells were fixed in 100% Methanol and permeabilized with None. 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 nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



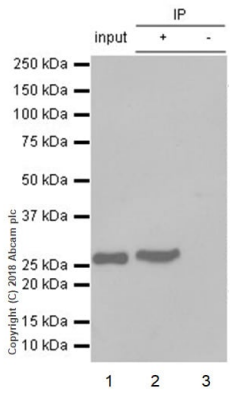
Flow Cytometry (Intracellular) - Anti-eIF4E antibody [Y448] (ab33766)

Intracellular Flow Cytometry analysis of HEK-293 (Human embryonic kidney epithelial cell) cells labeling eIF4E with Purified ab33766 at 1/200 dilution (1µg/ml) (red). Cells were fixed with 80% Methanol. A Goat anti rabbit IgG (Alexa Fluorr® 488, **ab150077**) secondary antibody was used at 1/2000. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).



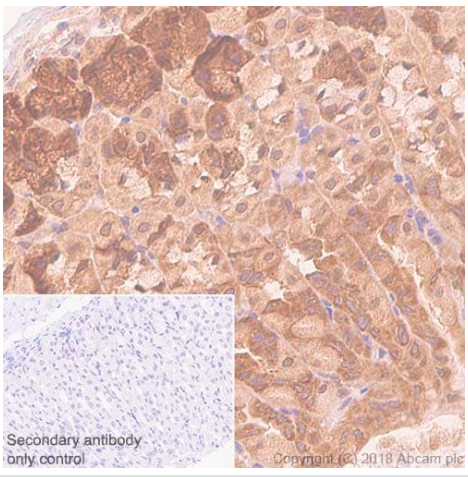
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-eIF4E antibody [Y448] (ab33766)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Rat kidney tissue sections labeling eIF4E with Purified ab33766 at 1:100 dilution (1.33 µg/ml). Heat mediated antigen retrieval was performed Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 10mins. Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**)was used as the secondary antibody. Negative control:PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



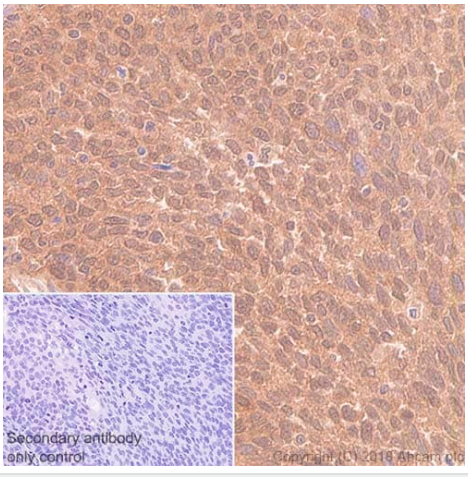
Immunoprecipitation - Anti-eIF4E antibody [Y448] (ab33766)

ab33766 (purified) at 1:20 dilution (0.6µg) immunoprecipitating eIF4E in HEK-293 whole cell lysate.
Lane 1 (input): HEK-293 (Human embryonic kidney epithelial cell) whole cell lysate 10µg
Lane 2 (+): ab33766 & HEK-293 whole cell lysate
Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of ab33766 in HEK-293 whole cell lysate
For western blotting, VeriBlot for IP Detection Reagent (HRP) (**ab131366**) was used for detection at 1:10,000 dilution.
Blocking and diluting buffer: 5% NFDM/TBST.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-eIF4E antibody [Y448] (ab33766)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Mouse stomach tissue sections labeling eIF4E with Purified ab33766 at 1:100 dilution (1.33 µg/ml). Heat mediated antigen retrieval was performed Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 10mins. Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**)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-eIF4E antibody [Y448] (ab33766)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human cervical carcinoma tissue sections labeling eIF4E with Purified ab33766 at 1:100 dilution (1.33 µg/ml). Heat mediated antigen retrieval was performed Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 10mins. Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**)was used as the secondary antibody. Negative control:PBS instead of the primary antibody. Hematoxylin was used as a counterstain.

Western blot - Anti-eIF4E antibody [Y448] (ab33766)

Anti-eIF4E antibody [Y448] (ab33766) at 1/1000 dilution (Purified) + Human brain lysates at 15 µg

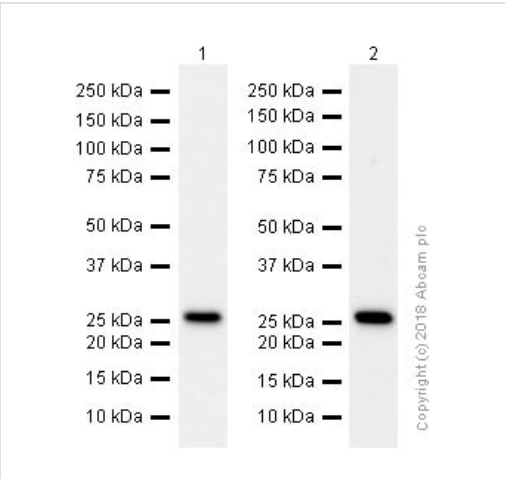
Secondary

Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

Predicted band size: 25 kDa

Observed band size: 25 kDa

Blocking and dilutin buffer and concentration: 5% NFDM/TBST



Western blot - Anti-eIF4E antibody [Y448] (ab33766)

All lanes : Anti-eIF4E antibody [Y448] (ab33766) at 1/5000 dilution

Lane 1 : HEK-293 (Human embryonic kidney epithelial cell) whole cell lysates

Lane 2 : MCF7 (Human breast adenocarcinoma epithelial cell) whole cell lysates

Lysates/proteins at 15 µg per lane.

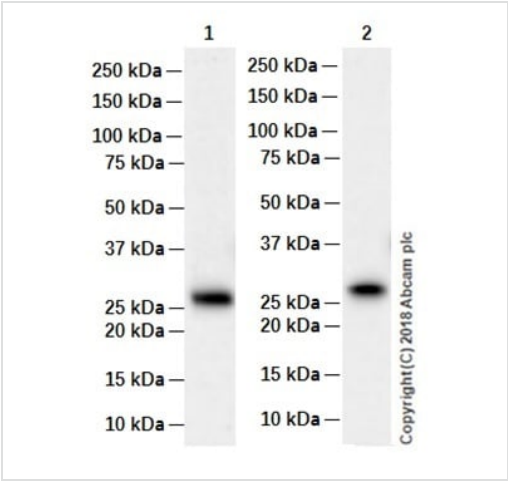
Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

Predicted band size: 25 kDa

Observed band size: 25 kDa

Blocking and dilutin buffer and concentration: 5% NFDM/TBST



Western blot - Anti-eIF4E antibody [Y448] (ab33766)

All lanes : Anti-eIF4E antibody [Y448] (ab33766) at 0.025 µg/ml

Lane 1 : Raw264.7 (Mouse abelson murine leukemia virus-induced tumor) whole cell lysate
Lane 2 : C6 (Rat glioma) whole cell lysate

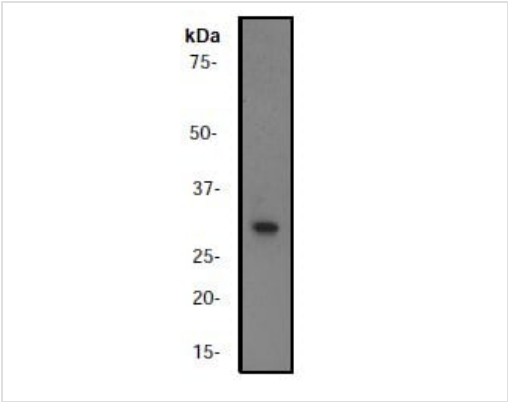
Lysates/proteins at 20 µg per lane.

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

Predicted band size: 25 kDa

Blocking and diluting buffer: 5% NFDM/TBST.

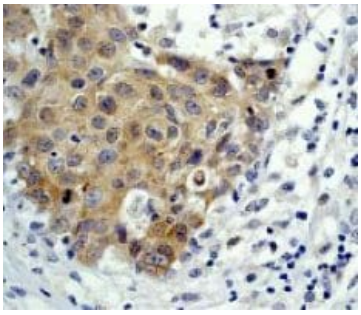
Exposure time - Lane 1: 160 seconds
Lane 2: 70 seconds



Western blot - Anti-eIF4E antibody [Y448] (ab33766)

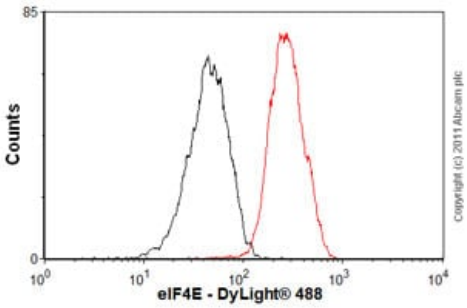
Anti-eIF4E antibody [Y448] (ab33766) at 1/500 dilution + 293 cell lysate

Predicted band size: 25 kDa
Observed band size: 30 kDa



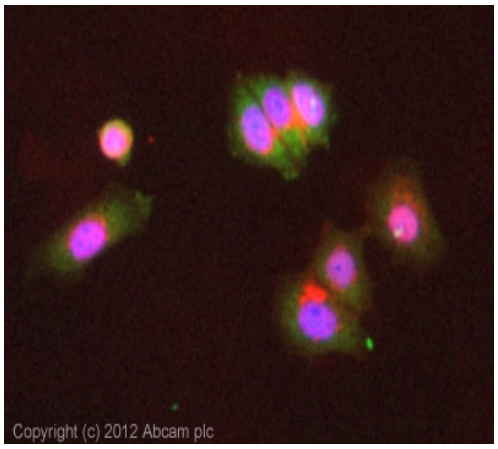
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-eIF4E antibody [Y448] (ab33766)

This image shows human breast carcinoma stained with ab33766



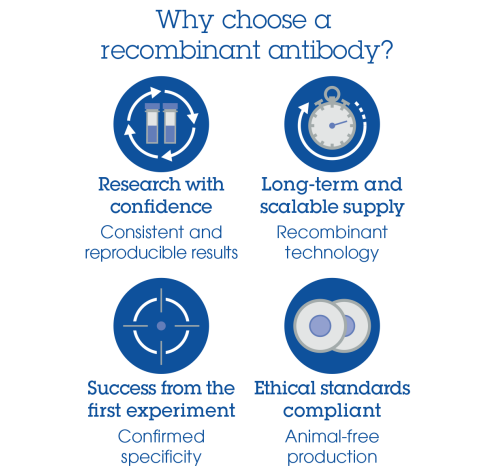
Flow Cytometry (Intracellular) - Anti-eIF4E antibody [Y448] (ab33766)

Overlay histogram showing HEK293 cells stained with ab33766 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab33766, 1µg/1x10^6 cells) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-rabbit IgG (H+L) (**ab96899**) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was rabbit IgG (1µg/1x10^6 cells) used under the same conditions. Acquisition of >5,000 events was performed.



Immunocytochemistry/ Immunofluorescence - Anti-eIF4E antibody [Y448] (ab33766)

ICC/IF image of ab33766 stained MCF7 cells. The cells were 4% formaldehyde (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab33766, 10µg/ml) overnight at +4°C. The secondary antibody (green) was **ab96899** Dylight 488 goat anti-rabbit IgG (H+L) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.



Anti-eIF4E antibody [Y448] (ab33766)

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