abcam

Product datasheet

Anti-eIF4A3 antibody [EPR14301(B)] ab180573

リコンビナント   RabMAb

★★★★★ **5 Abreviews**   **9 References**   **画像数** 7

製品の概要

製品名	Anti-eIF4A3 antibody [EPR14301(B)]
製品の詳細	Rabbit monoclonal [EPR14301(B)] to eIF4A3
由来種	Rabbit
アプリケーション	**適用あり:** Flow Cyt (Intra), WB, IHC-P, ICC/IF, IP
種交差性	**交差種:** Human
	交差が予測される動物種: Mouse, Rat, Chicken, Cow, Pig, Xenopus laevis, Zebrafish, Cynomolgus monkey, Xenopus tropicalis ⚠
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	MCF7, HeLa, Raji and HepG2 whole cell lysate (**ab7900**); MCF7 and HeLa cells; Human prostate tissue.
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. 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 Constituents: PBS, 40% 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	EPR14301(B)

アイソタイプ	IgG

アプリケーション

The Abpromise guarantee <u>Abpromise保証は、</u>次のテスト済みアプリケーションにおけるab180573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)		1/160. <u>ab172730</u> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB	★★★★★ (2)	1/1000 - 1/2000. Detects a band of approximately 47 kDa (predicted molecular weight: 47 kDa).
IHC-P		1/100. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF	★★★★★ (2)	1/500.
IP	★★★★☆ (1)	1/30.

ターゲット情報

| 機能	ATP-dependent RNA helicase. Component of a splicing-dependent multiprotein exon junction complex (EJC) deposited at splice junction on mRNAs. The EJC is a dynamic structure consisting of a few core proteins and several more peripheral nuclear and cytoplasmic associated factors that join the complex only transiently either during EJC assembly or during subsequent mRNA metabolism. Core components of the EJC, that remains bound to spliced mRNAs throughout all stages of mRNA metabolism, functions to mark the position of the exon-exon junction in the mature mRNA and thereby influences downstream processes of gene expression including mRNA splicing, nuclear mRNA export, subcellular mRNA localization, translation efficiency and nonsense-mediated mRNA decay (NMD). Constitutes at least part of the platform anchoring other EJC proteins to spliced mRNAs. Its RNA-dependent ATPase and RNA-helicase activities are induced by CASC3, but abolished in presence of the MAGOH/RBM8A heterodimer, thereby trapping the ATP-bound EJC core onto spliced mRNA in a stable conformation. The inhibition of ATPase activity by the MAGOH/RBM8A heterodimer increases the RNA-binding affinity of the EJC. Involved in translational enhancement of spliced mRNAs after formation of the 80S ribosome complex. Binds spliced mRNA in sequence-independent manner, 20-24 nucleotides upstream of mRNA exon-exon junctions. Shows higher affinity for single-stranded RNA in an ATP-bound core EJC complex than after the ATP is hydrolyzed.
組織特異性	Ubiquitously expressed.
配列類似性	Belongs to the DEAD box helicase family. eIF4A subfamily. Contains 1 helicase ATP-binding domain. Contains 1 helicase C-terminal domain.
細胞内局在	Nucleus. Nucleus speckle. Cytoplasm. Nucleocytoplasmic shuttling protein. Travels to the cytoplasm as part of the exon junction complex (EJC) bound to mRNA. Detected in dendritic layer as well as the nuclear and cytoplasmic (somatic) compartments of neurons. Colocalizes with

画像

Western blot - Anti-eIF4A3 antibody [EPR14301(B)] (ab180573)
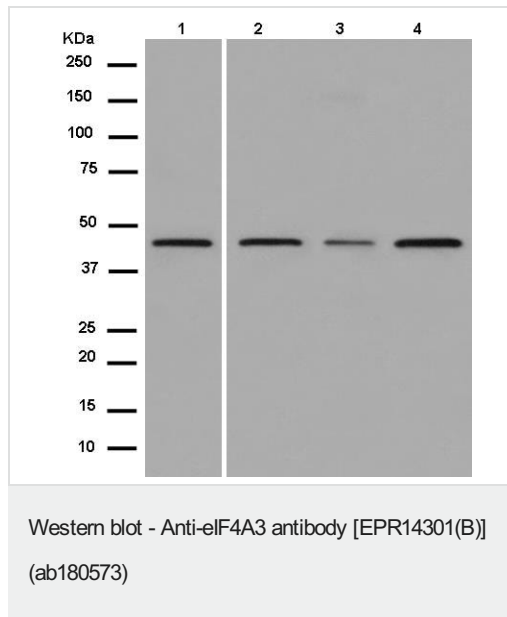
All lanes : Anti-eIF4A3 antibody [EPR14301(B)] (ab180573) at 1/1000 dilution

Lane 1 : MCF7 cell line with NFDM

Lane 2 : Hela cell line with NFDM

Lane 3 : Raji cell line with NFDM
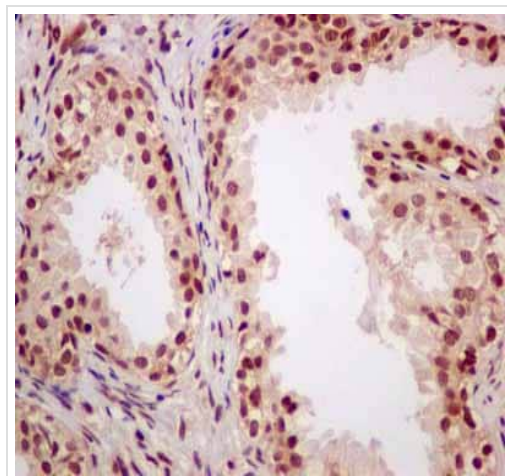
Lane 4 : HepG2 cell line with NFDM

Lysates/proteins at 20 μg per lane.

Blocking peptides at 5 % per lane.

**Secondary**

All lanes : Goat Anti-rabbit HRP at 1/1000 dilution

Predicted band size: 47 kDa

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-eIF4A3 antibody [EPR14301(B)] (ab180573)
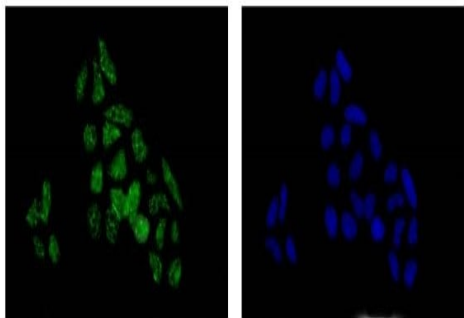
Immunohistochemical analysis of paraffin-embedded Human prostate tissue labeling eIF4A3 with ab180573 at 1/100 dilution. Prediluted (ready to use) HRP Polymer for Rabbit IgG was used as a secondary antibody. Counter stain: Hematoxylin.

Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.
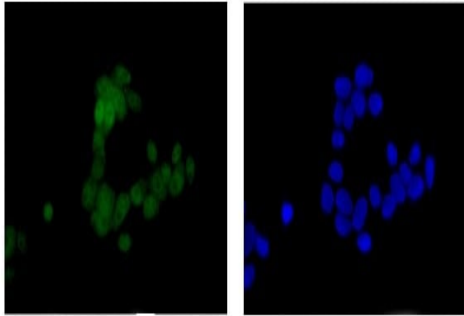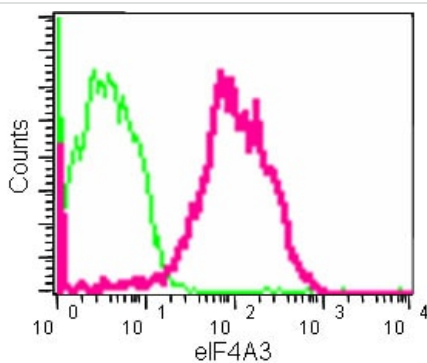
Immunofluorescent analysis of 4% paraformaldehyde MCF7 cells labeling eIF4A3 with ab180573 at 1/500 dilution (green), or with Dapi counter stain (blue). Goat anti rabbit IgG (Dylight 488) was used as a secondary antibody, at a dilution of 1/200.

Immunocytochemistry/ Immunofluorescence - Anti-eIF4A3 antibody [EPR14301(B)] (ab180573)

Immunofluorescent analysis of 4% paraformaldehyde Hela cells labeling eIF4A3 with ab180573 at 1/500 dilution (green), or with Dapi counter stain (blue). Goat anti rabbit IgG (Dylight 488) was used as a secondary antibody at a dilution of 1/200.

Immunocytochemistry/ Immunofluorescence - Anti-eIF4A3 antibody [EPR14301(B)] (ab180573)

Intracellular flow cytometric analysis of 2% paraformaldehydeMCF7 cells labeling eIF4A3 with ab180573 at 1/160 dilution,or a rabbit monoclonal IgG isotype control. Secondary antibody used was goat anti rabbit IgG (FITC) at a 1/150 dilution.

Flow Cytometry (Intracellular) - Anti-eIF4A3 antibody [EPR14301(B)] (ab180573)
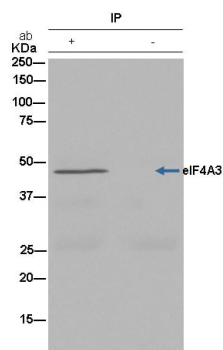
Immunoprecipitation - Anti-eIF4A3 antibody [EPR14301(B)] (ab180573)

Immunoprecipitation of Hela labeling eIF4A3 using ab180573 at a 1/30 dilution (lane 1). Lane 2 shows the negative control. Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG was used as a secondary antibody at a dilution of 1/1500. Blocking/dilution buffer and concentration: 5% NFDM/TBST.

All lanes : Anti-eIF4A3 antibody [EPR14301(B)] (ab180573) at 1/30 dilution

Lane 1 : Hela cell lysate with NFDM
Lane 2 : Negative control with NFDM

Blocking peptides at 5 % per lane.

Anti-eIF4A3 antibody [EPR14301(B)] (ab180573)

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