

Anti-PRAS40 antibody [EPR6263(2)] ab151719

KO 評価済 リコンビナント RabMAb

5 References 画像数 5

製品の概要

製品名	Anti-PRAS40 antibody [EPR6263(2)]
製品の詳細	Rabbit monoclonal [EPR6263(2)] to PRAS40
由来種	Rabbit
アプリケーション	適用あり: WB, IHC-P, Flow Cyt (Intra) 適用なし: ICC/IF
種交差性	交差種: Mouse, Human
免疫原	Synthetic peptide within Human PRAS40 aa 150-250. The exact sequence is proprietary. Database link: Q96B36
ポジティブ・コントロール	293T, SHSY5Y, HeLa and NIH 3T3 cell lysates; Human liver tissue; 293T 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">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> <p>Rat: We have preliminary internal testing data to indicate this antibody may not react with this species. Please contact us for more information.</p>

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at -20°C.
バッファー	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.5% BSA
精製度	Protein A purified
ポリ/モノ	モノクローナル

クローン名 EPR6263(2)
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ab151719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
WB		1/1000 - 1/10000. Detects a band of approximately 40 kDa (predicted molecular weight: 27 kDa).
IHC-P		1/50 - 1/100. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
Flow Cyt (Intra)		1/10 - 1/100. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

追加情報 Is unsuitable for ICC/IF.

ターゲット情報

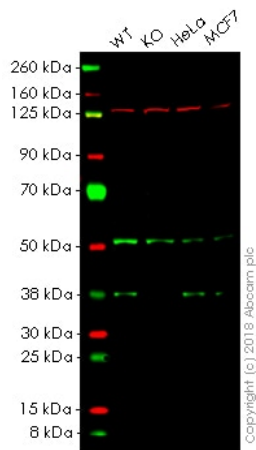
機能 Subunit of mTORC1, which regulates cell growth and survival in response to nutrient and hormonal signals. mTORC1 is activated in response to growth factors or amino-acids. Growth factor-stimulated mTORC1 activation involves a AKT1-mediated phosphorylation of TSC1-TSC2, which leads to the activation of the RHEB GTPase that potentially activates the protein kinase activity of mTORC1. Amino-acid-signaling to mTORC1 requires its relocalization to the lysosomes mediated by the Ragulator complex and the Rag GTPases. Activated mTORC1 up-regulates protein synthesis by phosphorylating key regulators of mRNA translation and ribosome synthesis. mTORC1 phosphorylates EIF4EBP1 and releases it from inhibiting the elongation initiation factor 4E (eIF4E). mTORC1 phosphorylates and activates S6K1 at 'Thr-389', which then promotes protein synthesis by phosphorylating PDCD4 and targeting it for degradation. Within mTORC1, AKT1S1 negatively regulates mTOR activity in a manner that is dependent on its phosphorylation state and binding to 14-3-3 proteins. Inhibits RHEB-GTP-dependent mTORC1 activation. Substrate for AKT1 phosphorylation, but can also be activated by AKT1-independent mechanisms. May also play a role in nerve growth factor-mediated neuroprotection.

組織特異性 Widely expressed with highest levels of expression in liver and heart. Expressed at higher levels in cancer cell lines (e.g. A549 and HeLa) than in normal cell lines (e.g. HEK293).

翻訳後修飾 Phosphorylated by AKT1. Phosphorylation relieves inhibitory function on mTORC1.

細胞内局在 Cytoplasm > cytosol. Found in the cytosolic fraction of the brain.

画像



Western blot - Anti-PRAS40 antibody [EPR6263(2)] (ab151719)

All lanes : Anti-PRAS40 antibody [EPR6263(2)] (ab151719) at 1/1000 dilution

Lane 1 : Wild-type HAP1 whole cell lysate

Lane 2 : AKT1S1 knockout HAP1 whole cell lysate

Lane 3 : HeLa whole cell lysate

Lane 4 : MCF-7 whole cell lysate

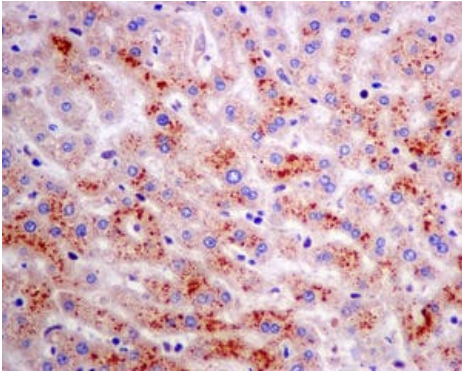
Lysates/proteins at 20 µg per lane.

Predicted band size: 27 kDa

Observed band size: 40 kDa

Lanes 1 -4: Merged signal (red and green). Green - ab151719 observed at 27 kDa. Red - loading control, **ab130007**, observed at 124 kDa.

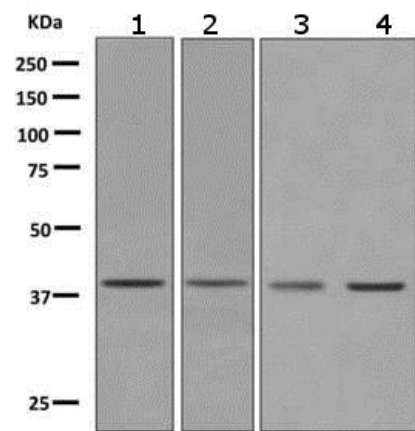
ab151719 was shown to recognize PRAS40 in wild-type HAP1 cells as signal was lost at the expected MW in AKT1S1 knockout cells. Additional cross-reactive bands were observed in the wild-type and knockout cells. Wild-type and AKT1S1 knockout samples were subjected to SDS-PAGE. Ab151719 and **ab130007** (Mouse anti-Vinculin loading control) were incubated overnight at 4°C at 1/1000 dilution and 1/20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed **ab216773** and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed **ab216776** secondary antibodies at 1/20000 dilution for 1 hour at room temperature before imaging.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PRAS40 antibody [EPR6263(2)] (ab151719)

Immunohistochemical analysis of paraffin-embedded Human liver tissue labeling PRAS40 with ab151719 at 1/50 dilution.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Western blot - Anti-PRAS40 antibody [EPR6263(2)] (ab151719)

All lanes : Anti-PRAS40 antibody [EPR6263(2)] (ab151719) at 1/1000 dilution

Lane 1 : 293T cell lysate

Lane 2 : SHSY5Y cell lysate

Lane 3 : HeLa cell lysate

Lane 4 : NIH 3T3 cell lysate

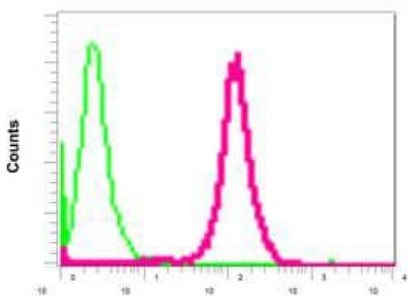
Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat anti-rabbit HRP at 1/2000 dilution

Predicted band size: 27 kDa

Observed band size: 40 kDa



Flow Cytometry (Intracellular) - Anti-PRAS40 antibody [EPR6263(2)] (ab151719)

Intracellular flow cytometric analysis of permeabilized 293T cells labeling PRAS40 with ab151719 at 1/10 dilution (red), compared to a nonspecific control antibody (green).

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-PRAS40 antibody [EPR6263(2)] (ab151719)

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

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