

Product datasheet

Anti-Raptor antibody ab125351

画像数 1

製品の概要

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| 製品名 | Anti-Raptor antibody |
| 製品の詳細 | Rabbit polyclonal to Raptor |
| 由来種 | Rabbit |
| アプリケーション | 適用あり: WB |
| 種交差性 | 交差種: Human 交差が予測される動物種: Horse, Cow, Dog, Pig, Chimpanzee, Macaque monkey, Gorilla  |
| 免疫原 | Synthetic peptide conjugated to KLH derived from within residues 500 - 600 of Human Raptor.Immunogen の所有権に関して |
| ポジティブ・コントロール | This antibody gave a positive signal in the following human whole cell lysates: HepG2; HeLa; HEK293; PANC1; A431. |

製品の特性

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| 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 or -80°C. Avoid freeze / thaw cycle. |
| バッファー | pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS Note: Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help. |
| 精製度 | Immunogen affinity purified |
| ポリ/モノ | ポリクローナル |
| アイソタイプ | IgG |

アプリケーション

Our [Abpromise guarantee](#) covers the use of **ab125351** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

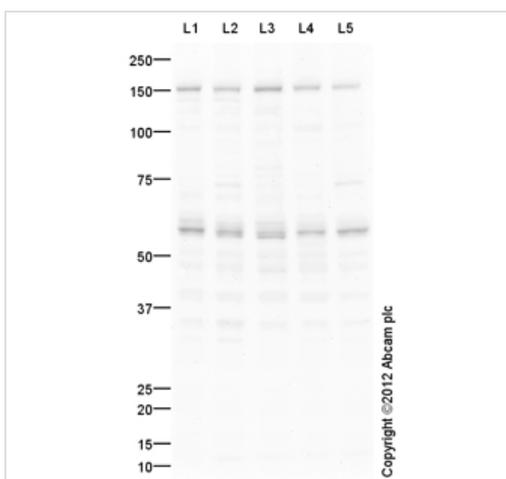
| アプリケーション | Abreviews | 特記事項 |
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WB 1/250. Detects a band of approximately 151 kDa (predicted molecular weight: 149 kDa).

ターゲット情報

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| 機能 | Involved in the control of the mammalian target of rapamycin complex 1 (mTORC1) activity which regulates cell growth and survival, and autophagy in response to nutrient and hormonal signals; functions as a scaffold for recruiting mTORC1 substrates. 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 potently 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. |
| 組織特異性 | Highly expressed in skeletal muscle, and in a lesser extent in brain, lung, small intestine, kidney and placenta. |
| 配列類似性 | Belongs to the WD repeat RAPTOR family. Contains 7 WD repeats. |
| 細胞内局在 | Cytoplasm. Lysosome. Targeting to lysosomes depends on amino acid availability. |

画像



Western blot - Anti-Raptor antibody (ab125351)

All lanes : Anti-Raptor antibody (ab125351) at 1/250 dilution

Lane 1 : HepG2 (Human hepatocellular liver carcinoma cell line) Whole Cell Lysate

Lane 2 : HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate

Lane 3 : HEK293 (Human embryonic kidney cell line) Whole Cell Lysate

Lane 4 : PANC-1 (Human Pancreatic Carcinoma) Whole Cell Lysate

Lane 5 : A431 (Human epithelial carcinoma cell line) Whole Cell Lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP)

(ab297031) at 1/10000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 149 kDa

Observed band size: 151 kDa

Additional bands at: 60 kDa, 72 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 3 minutes

This blot was produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 5% Bovine Serum Albumin before being incubated with ab125351 overnight at 4°C. Antibody binding was detected using an anti-rabbit antibody conjugated to HRP, and visualised using ECL development solution.

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