

Product datasheet

Anti-Raptor antibody ab26264

1 References 3 Images

Overview

Product name	Anti-Raptor antibody
Description	Rabbit polyclonal to Raptor
Tested applications	Suitable for: WB, ICC/IF
Species reactivity	Reacts with: Mouse, Human
Immunogen	Synthetic peptide, corresponding to 13 N terminal amino acids of Human Raptor
Positive control	L1210 cell lysate
General notes	Raptor has multiple isoforms that may also be recognized by this antibody.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	Preservative: 0.02% Sodium Azide Constituents: PBS
Purity	Immunogen affinity purified
Primary antibody notes	Raptor has multiple isoforms that may also be recognized by this antibody.
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab26264** in the following tested applications.

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

Application	Abreviews	Notes
WB		Use a concentration of 2 µg/ml. Predicted molecular weight: 149 kDa. Can be blocked with Human Raptor peptide (ab39860) .

Application	Abreviews	Notes
ICC/IF		Use a concentration of 10 µg/ml.

Target

Function

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.

Tissue specificity

Highly expressed in skeletal muscle, and in a lesser extent in brain, lung, small intestine, kidney and placenta.

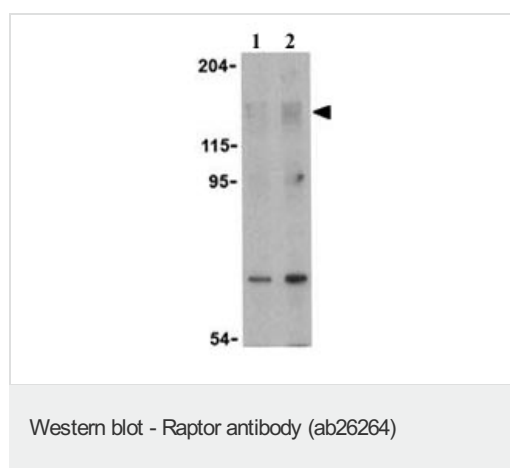
Sequence similarities

Belongs to the WD repeat RAPTOR family.
Contains 7 WD repeats.

Cellular localization

Cytoplasm. Lysosome. Targeting to lysosomes depends on amino acid availability.

Images



Lane 1 : Anti-Raptor antibody (ab26264) at 2 µg/ml

Lane 2 : Anti-Raptor antibody (ab26264) at 4 µg/ml

Lane 1 : L1210 cell lysate

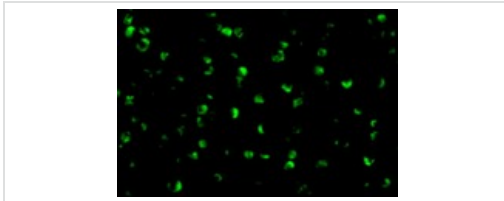
Lane 2 : L1210 cell lysate

Predicted band size : 149 kDa



ab26264 at 10µg/ml staining Raptor in L1210 cells by ICC/IF

Immunocytochemistry/ Immunofluorescence - Raptor antibody (ab26264)



Immunofluorescence of Raptor in L1210 cells using ab26264 at 10 ug/ml.

Immunocytochemistry/ Immunofluorescence-Anti-Raptor antibody(ab26264)

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <http://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors