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Datasheet for ABIN745478
anti-RAPTOR antibody (pSer792)

Overview

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|----------------------|---|
| Quantity: | 100 µL |
| Target: | RAPTOR |
| Binding Specificity: | pSer792 |
| Reactivity: | Human, Mouse, Zebrafish (Danio rerio) |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This RAPTOR antibody is un-conjugated |
| Application: | ELISA, Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro)) |

Product Details

| | |
|-----------------------|---|
| Immunogen: | KLH conjugated synthetic phosphopeptide derived from mouse Raptor around the phosphorylation site of Ser792 |
| Isotype: | IgG |
| Cross-Reactivity: | Human, Mouse, Zebrafish (Danio rerio) |
| Predicted Reactivity: | Rat,Dog,Cow,Sheep,Pig,Horse,Chicken,Guinea Pig |
| Purification: | Purified by Protein A. |

Target Details

| | |
|---------|--------|
| Target: | RAPTOR |
|---------|--------|

Target Details

Alternative Name: Raptor ([RAPTOR Products](#))

Background: Synonyms: ARaptor phospho S792, Raptor phospho Ser792, p-Raptor Ser792, p150 target of rapamycin TOR scaffold protein containing WD repeats, P150 target of rapamycin TOR-scaffold protein, Regulatory Associated Protein of mTOR, KIAA1303, RPTOR_HUMAN, Regulatory-associated protein of mTOR, p150 target of rapamycin TOR-scaffold protein.

Background: mTOR controls cell growth, in part by regulating p70 S6 kinase alpha (p70alpha) and eukaryotic initiation factor 4E binding protein 1 (4EBP1). Raptor is a 150 kDa mTOR binding protein that also binds 4EBP1 and p70alpha. The binding of Raptor to mTOR is necessary for the mTOR-catalyzed phosphorylation of 4EBP1 in vitro, and it strongly enhances the mTOR kinase activity toward p70alpha. Rapamycin or amino acid withdrawal increases, whereas insulin strongly inhibits, the recovery of 4EBP1 and raptor on 7-methyl-GTP Sepharose. Partial inhibition of raptor expression by RNA interference (RNAi) reduces mTOR-catalyzed 4EBP1 phosphorylation in vitro. RNAi of *C. elegans* raptor yields an array of phenotypes that closely resemble those produced by inactivation of Ce-TOR. Thus, raptor is an essential scaffold for the mTOR-catalyzed phosphorylation of 4EBP1 and mediates TOR action in vivo.

Pathways: [Warburg Effect](#)

Application Details

Application Notes: ELISA 1:500-1000
IHC-P 1:200-400
IHC-F 1:100-500
IF(IHC-P) 1:50-200
IF(IHC-F) 1:50-200
IF(ICC) 1:50-200

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: 0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be

Handling

handled by trained staff only.

Storage: 4 °C,-20 °C

Storage Comment: Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Expiry Date: 12 months