

## Raptor (Phospho Ser863) Rabbit pAb

CatalogNo: YP1691

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- WB

#### MW

- 150kD (Observed)

#### Isotype

- IgG

### Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### Recommended Dilution Ratios

WB 1:500-2000

### Basic Information

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** Synthesized peptide derived from human Raptor (Phospho-Ser863)

**Specificity** This antibody detects endogenous levels of Raptor (Phospho-Ser863) at Human, Mouse, Rat. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites): PAsPT

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## | Target Information

**Gene name** RPTOR KIAA1303 RAPTOR

**Protein Name** Raptor (Phospho-Ser863)

Organism	Gene ID	UniProt ID
Human	<a href="#">57521</a> ;	<a href="#">Q8N122</a> ;
Mouse		<a href="#">Q8K4Q0</a> ;

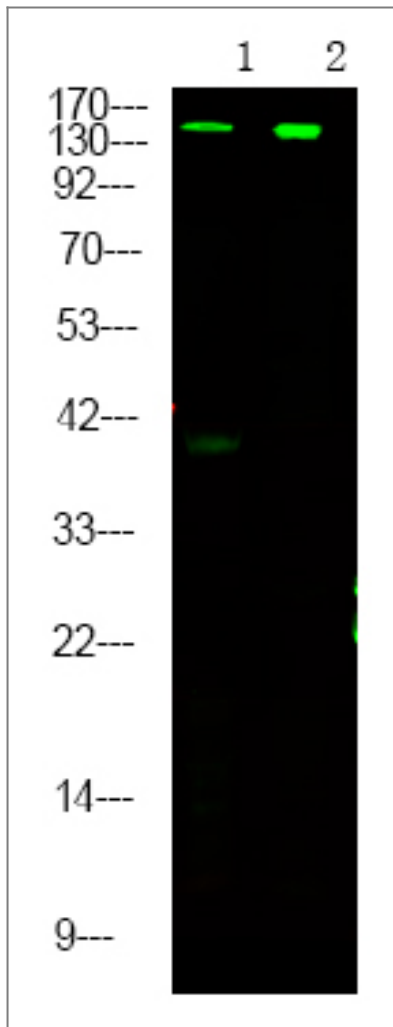
**Cellular Localization** Cytoplasm. Lysosome. Cytoplasmic granule . Targeting to lysosomes depends on amino acid availability. In arsenite-stressed cells , accumulates in stress granules when associated with SPAG5 and association with lysosomes is drastically decreased.

**Tissue specificity** Highly expressed in skeletal muscle , and in a lesser extent in brain , lung , small intestine , kidney and placenta. Isoform 3 is widely expressed , with highest levels in nasal mucosa and pituitary and lowest in spleen.

**Function** Function:Participates in the FRAP1 pathway and associates in a near stoichiometric ratio with FRAP1 to form a nutrient-sensitive complex (NSC) . Plays a pivotal role as a scaffold protein in the FRAP1-signaling pathway and this interaction is essential for the catalyzed phosphorylation of EIF4EBP1. Has a positive role in nutrient-stimulated signaling to the downstream effector RPS6KB1. Under nutrient-deprived conditions , serves as a negative regulator of FRAP1 kinase activity. Regulation of the interaction with FRAP1 is a critical mechanism by which cells coordinate the rate of cell growth and maintenance of cell size with different environmental conditions. ,miscellaneous:Rapamycin destabilizes the interaction with FRAP1 regardless of nutrient availability , and its potency for dissociation is increased under nutrient-rich conditions. This action uncouples FRAP1 from its substrates , and inhibits FRAP1 signaling without altering its intrinsic catalytic activity. ,similarity:Belongs to the WD repeat RAPTOR family. ,similarity:Contains 7 WD repeats. ,subunit:Binds directly 4EBP1 and RPS6KB1 independently of its association with FRAP1. Binds preferentially to poorly or non-phosphorylated form of EIF4EBP1 , and this binding is critical to the ability of FRAP1 to catalyze phosphorylation. Complex with FRAP1 physically interacts under both leucine-rich and -poor conditions and therefore in at least two nutrient-determined states with different stability. ,tissue specificity:Highly expressed in skeletal muscle , and in a lesser extent in brain , lung , small intestine , kidney and placenta. ,

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## | Validation Data



Western Blot analysis of MCF-7 cell, HepG2 cell, mouse heart tissue, using primary antibody at 1:1000 dilution. Secondary antibody (catalog#:RS23920) was diluted at 1:10000

## Contact information

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