

Recombinant Human RPTOR cell lysate

Cat. No. RPTOR-1543HCL Lot. No. (See product label)

SPECIFICATION

Species

Human

Description

This gene encodes a component of a signaling pathway that regulates cell growth in response to nutrient and insulin levels. The encoded protein forms a stoichiometric complex with the mTOR kinase, and also associates with eukaryotic initiation factor 4E-binding protein-1 and ribosomal protein S6 kinase. The protein positively regulates the downstream effector ribosomal protein S6 kinase, and negatively regulates the mTOR kinase. Multiple transcript variants encoding different isoforms have been found for this gene.

Size

100 ul

Storage Buffer

1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)

Applications

Western Blot;

GENE INFORMATION

Gene Name

RPTOR regulatory associated protein of MTOR, complex 1 [Homo sapiens]

Official Symbol

RPTOR

Synonyms

RPTOR; regulatory associated protein of MTOR, complex 1; regulatory-associated protein of mTOR; KIAA1303; KOG1; Mip1; raptor; regulatory associated protein of

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mTOR; p150 target of rapamycin (TOR)-scaffold protein containing WD-repeats;

Gene ID [57521](#)

mRNA Refseq [NM_001163034](#)

Protein Refseq [NP_001156506](#)

MIM [607130](#)

UniProt ID [Q8N122](#)

Chromosome Location 17q25.3

Pathway AMPK signaling, organism-specific biosystem; Energy dependent regulation of mTOR by LKB1-AMPK, organism-specific biosystem; IRS-mediated signalling, organism-specific biosystem; IRS-related events, organism-specific biosystem; Insulin receptor signalling cascade, organism-specific biosystem; Insulin signaling pathway, organism-specific biosystem; Insulin signaling pathway, conserved biosystem;

Function 14-3-3 protein binding; RNA polymerase III type 1 promoter DNA binding; RNA polymerase III type 2 promoter DNA binding; RNA polymerase III type 3 promoter DNA binding; TFIIIC-class transcription factor binding; protein binding; protein complex binding; protein kinase binding;

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