

Recombinant Human RPTOR cell lysate

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

SPECIFICATION

Product Overview

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

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	protein of mTOR; KIAA1303; KOG1; Mip1; raptor; regulatory associated protein of 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;