Store at -20C

LAMTOR2/ROBLD3 (D7C10) Rabbit mAb



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Applications: WB, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 14	Source/Isotype: Rabbit IgG	UniProt ID: #Q9Y2Q5	Entrez-Gene ld: 28956	
Product Usage Information	Ар	Application			Dilution		
	We	Western Blotting			1:1000		
	Imi	Immunoprecipitation			1:50		
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
Specificity / Sensitivity		LAMTOR2/ROBLD3 (D7C10) Rabbit mAb recognizes endogenous levels of total LAMTOR2/ROBLD3 protein. This antibody may cross-react with LAMTOR1/C11orf59 and LAMTOR3/MAPKSP1.					
Source / Purifica		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu31 of human LAMTOR2/ROBLD3 protein.					
Background	moc Rag both com	mTORC1 kinase complex is a critical component in the regulation of cell growth (1,2). Its activity is modulated by energy levels, growth factors, and amino acids (3,4). The four related GTPases, RagA, RagB, RagC, and RagD, have been shown to interact with raptor in mTORC1 (1,2). These interactions are both necessary and sufficient for mTORC1 activation in response to amino acid signals (1,2). A protein complex consisting of LAMTOR1/C11orf59, LAMTOR2/ROBLD3, and LAMTOR3/MAPKSP1 has been identified to interact with and recruit the four Rag GTPases to the surface of lysosomes (5).					
Background Ref	2. K 3. H 4. W	 Sancak, Y. et al. (2008) Science 320, 1496-501. Kim, E. et al. (2008) Nat Cell Biol 10, 935-45. Hay, N. and Sonenberg, N. (2004) Genes Dev 18, 1926-45. Wullschleger, S. et al. (2006) Cell 124, 471-84. Sancak, Y. et al. (2010) Cell 141, 290-303. 					

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dq: dog Pq: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected

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