## LAMTOR2/ROBLD3 (D7C10) Rabbit mAb



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## For Research Use Only. Not for Use in Diagnostic Procedures.

<b>Applications:</b> W, IP	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 14	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #Q9Y2Q5	Entrez-Gene Id: 28956
Product Usage Information	2	<b>Application</b> Western Blotting Immunoprecipitation			<b>Dilution</b> 1:1000 1:50	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/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 / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu31 of human LAMTOR2/ROBLD3 protein.				
Background		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 References		1. Sancak, Y. et al. (2008) <i>Science</i> 320, 1496-501. 2. Kim, E. et al. (2008) <i>Nat Cell Biol</i> 10, 935-45. 3. Hay, N. and Sonenberg, N. (2004) <i>Genes Dev</i> 18, 1926-45. 4. Wullschleger, S. et al. (2006) <i>Cell</i> 124, 471-84. 5. Sancak, Y. et al. (2010) <i>Cell</i> 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		W: Western Blotting IP: Immunoprecipitation				
Cross-Reactivity Key		H: Human M: Mouse R: Rat Mk: Monkey				
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