LAMTOR1/C11orf59 (D11H6) XP[®] Rabbit mAb



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Applications: W, IP, IHC-P, IF-IC	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 18	Source/Isotype: Rabbit IgG	UniProt ID: #Q6IAA8	Entrez-Gene Id: 55004	
Product Usage Information		Application Western Blotting Immunoprecipitation Immunohistochemist Immunofluorescence		Dilution 1:1000 1:50 1:100 - 1:400 1:50 - 1:200			
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.					
		For a carrier free (BSA and azide free) version of this product see product #87786.					
Specificity/Sen	sitivity	LAMTOR1/C11orf59 (D11H6) XP [®] Rabbit mAb recognizes endogenous levels of total LAMTOR1/C11orf59 protein. This antibody may cross-react with LAMTOR2/ROBLD3 and LAMTOR3/MAPKSP1.					
Source / Purific	cation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala71 of human LAMTOR1/C11orf59 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 Re	eferences	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 Reactiv	vity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).					
Western Blot B	uffer	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 K	еу	W: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry)					
Cross-Reactivit	y Key	H: Human M: Mouse R: Rat Mk: Monkey					
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