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C17orf59 (D2B5X) Rabbit mAb

Applications: R WB	eactivity: Sensitivity H Mk Endogenous		Source/Isotype: Rabbit IgG	UniProt ID: #Q96GS4	Entrez-Gene Id: 54785		
Product Usage	Application			Dilution			
Information	Western Blotting			1:1000			
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 / Sensitivit	C17orf59 (D2B5X)	C17orf59 (D2B5X) Rabbit mAb recognizes endogenous levels of total C17orf59 protein.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Glu270 of human C17orf59 protein.					
Background	growth factors, and interact with raptor i LAMTOR2/ROBLD2 the Rag GTPases a activation in respon Ragulator and disru	mTORC1 kinase complex is a critical component to regulate cell growth in response to energy levels, growth factors, and amino acids (1-4). The GTPases RagA, RagB, RagC and RagD have been shown to interact with raptor in mTORC1 (3,4). A Ragulator complex, consisting of LAMTOR1/C11orf59, LAMTOR2/ROBLD3, LAMTOR3/MAPKSP1, LAMTOR4/C7orf59 and LAMTOR5/HBXIP, associates with the Rag GTPases and recruit them to the surface of lysosomes (5, 6). These interactions lead to mTORC1 activation in response to amino acid signals (3-6). In addition, C17orf59 was shown to interact with Ragulator and disrupt the interaction between Ragulator and Rag GTPases (7). This disruption prevents mTOR from localizing to the lysosomal membrane and therefore inhibits mTORC1 activation (7).					
Background Referenc	2. Wullschleger, S. (3. Sancak, Y. et al. (4. Kim, E. et al. (200 5. Sancak, Y. et al. (6. Bar-Peled, L. et a	 Hay, N. and Sonenberg, N. (2004) <i>Genes Dev</i> 18, 1926-45. Wullschleger, S. et al. (2006) <i>Cell</i> 124, 471-84. Sancak, Y. et al. (2008) <i>Science</i> 320, 1496-501. Kim, E. et al. (2008) <i>Nat Cell Biol</i> 10, 935-45. Sancak, Y. et al. (2010) <i>Cell</i> 141, 290-303. Bar-Peled, L. et al. (2012) <i>Cell</i> 150, 1196-208. Schweitzer, L.D. et al. (2015) <i>Cell Rep</i> 12, 1445-55. 					
Species Reactivity	Species reactivity is	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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.					
Applications Key	WB: Western Blottir	WB: Western Blotting					
Cross-Reactivity Key	X: Xenopus Z: zebra	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 Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected					
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