ម្ម ស្តី WDR59 (D4Z7A) Rabbit mAb





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Applications: W, IP	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 110	Source/Isotype: Rabbit IgG	UniProt ID: #Q6PJI9	Entrez-Gene Id: 79726		
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 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 WDR59 (D4Z7A) rabbit mAb recog				ndogenous levels of tota	al WDR59 protein.			
Source / Purifi	cation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding His356 of human WDR59 protein.						
Background		The mTORC1 kinase complex plays a critical role in cell growth regulation (1, 2). mTORC1 activity is modulated by cellular environmental factors (e.g., energy levels, growth factors, amino acids) (3, 4), which are mediated through a protein complex known as GATOR (GAP Activity Towards Rags) (5). GATOR is comprised of two protein subcomplexes (GATOR1 and GATOR2), that function in opposing fashion to regulate mTORC1 activity (5). WDR59 was identified as a component of the GATOR2 subcomplex (also containing Mios, WDR24, Seh1L and Sec13), that functions to positively regulate mTORC1 activity (5). Conversely, the GATOR1 subcomplex (containing DEPDC5, Nprl2 and Nprl3), negatively regulates mTORC1 activity, through activation of RagA and RagB GTPases (5).						
Background Ro	eferences	1. Sancak, Y. et al. (200 2. Kim, E. et al. (2008) 3. Hay, N. and Sonenb 4. Wullschleger, S. et a 5. Bar-Peled, L. et al. (2	<i>Nat Cell Biol</i> 10, 93 erg, N. (2004) <i>Gene</i> I. (2006) <i>Cell</i> 124, 4	5-45. e <i>s Dev</i> 18, 1926-45. 71-84.				
Species Reacti	vity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot E	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 K	ey	W: Western Blotting IP: Immunoprecipitation						
Cross-Reactivit	ty Key	H: Human Mk: Monkey						
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