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WDR59 (D4Z7A) Rabbit mAb



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Applications: WB, IP	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 110	Source/Isotype: Rabbit IgG	UniProt ID: #Q6PJI9	Entrez-Gene Id: 79726	
Product Usage Information	Ар	plication		Dilution			
	We	stern Blotting		1:1000			
	Imr	munoprecipitation			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 / Sensitiv	vity WD	WDR59 (D4Z7A) rabbit mAb recognizes endogenous levels of total WDR59 protein.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding His356 of human WDR59 protein.					
Background	moc are com regu cont Con	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 Refere	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. Bar-Peled, L. et al. (2013) Science 340, 1100-6. 					

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 nonfat dry milk, 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 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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