3/23/24. 11:30 AM

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Patents

LAMTOR1/C11orf59 (D11H6) XP® Rabbit mAb



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

Applications: WB, 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	Aŗ	Application			Dilution		
	W	estern Blotting			1:10	000	
	Im	munoprecipitation			1:50)	
	Im	Immunohistochemistry (Paraffin)				1:100 - 1:400	
	Im	munofluorescence (l	mmunocytochen	1:50 - 1:200			
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.					
	For	For a carrier free (BSA and azide free) version of this product see product #87786.					
Specificity / Sensi		LAMTOR1/C11orf59 (D11H6) XP^{\otimes} Rabbit mAb recognizes endogenous levels of total LAMTOR1/C11orf59 protein. This antibody may cross-react with LAMTOR2/ROBLD3 and LAMTOR3/MAPKSP1.					
Source / Purificati	ce / Purification Monoclonal antibody is produced by immunizing animals with a residues surrounding Ala71 of human LAMTOR1/C11orf59 pro				, , , , ,		
Background	mo Raç bot con	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 Refe	2. k 3. h 4. V	 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. Sancak, Y. et al. (2010) Cell 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 WB: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin)

IF-IC: Immunofluorescence (Immunocytochemistry)

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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 $LAMTOR1/C11 or f59 \ (D11H6) \ XP @ \ Rabbit \ mAb \ (\#8975) \ Datasheet \ Without \ Images \ Cell \ Signaling \ Technol...$

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