



Orders: 877-616-CELL (2355)
orders@cellsignal.com

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Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

Store at -20C
#8168

LAMTOR3/MAPKSP1 (D38G5) Rabbit mAb

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

Applications: W	Sensitivity: Endogenous	MW (kDa): 14	Source/Isotype: Rabbit IgG	UniProt ID: #Q9UHA4	Entrez-Gene Id: 8649
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Product Usage Information	Application Western Blotting	Dilution 1:1000
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	LAMTOR3/MAPKSP1 (D38G5) Rabbit mAb recognizes endogenous levels of total LAMTOR3/MAPKSP1 protein. This antibody may cross-react with LAMTOR1/C11orf59 and LAMTOR2/ROBLD3.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val16 of human LAMTOR3/MAPKSP1 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 References	<ol style="list-style-type: none"> 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 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	W: Western Blotting
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