WIPI2 Antibody Image: Cell Signaling Cell Signal.com 0rders: 877-616-CELL (2355) orders@cellsignal.com Support: 877-678-TECH (8324) Web: Web: info@cellsignal.com cellsignal.com cellsignal.com Trask Lane | Danvers | Massachusetts | 01923 | USA

Applications: W	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 49	Source/Isotype: Rabbit	UniProt ID: #Q9Y4P8	Entrez-Gene Id: 26100
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 and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		WIPI2 Antibody recognizes endogenous levels of total human WIPI2 protein. This antibody detects overexpressed mouse WIPI2 protein and weakly detects endogenous levels of mouse WIPI2.				
Species predicted to react based on 100% sequence homology		Monkey				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu379 of human WIPI2 protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		contents (1,2). It is ge number of physiologi	nerally activated by cal processes incluc (3). The molecular r	autophagosomic-lysoson conditions of nutrient d ling development, differ nachinery of autophagy ed (Atg) genes.	eprivation but is als entiation, neurode	so associated with a generation,
		Vps34, which generat related WD-repeat pr shown that Atg18 bin interaction with PtdIr WD-repeat protein In and WIPI2 have been	es phosphoinositid oteins that bind Ptd ds to Atg2 and that is3P (8). Human orth teracting with Phos shown to transloca	ontrolled by the class III e-3-phosphate (PtdIns3F Ins3P via a conserved Pl this complex is directed hologs of Atg18 and Atg bhoinositides (WIPI) fam te from several vacuolar translocation may be us	P) (4,5). Atg18 and A he-Arg-Arg-Gly mot to vacuolar membi 21 were identified a hily (9-11). WIPI1 (als compartments to l	tg21 are two if (6,7). It has been ranes by its is members of the co called WIPI49) LC3-positive
Background Re	eferences	3. Levine, B. and Yuar 4. Corvera, S. (2001) 7	eijer, A.J. (2005) <i>Cell</i> n, J. (2005) <i>J Clin Inve</i> <i>Traffic</i> 2, 859-66. J.M. (2007) <i>Biochem</i> 5) <i>FEBS Lett</i> 580, 463 al. (2004) <i>Mol Biol C</i> 28) <i>J Biol Chem</i> 283, 2004) <i>Mol Biol Cell</i> 1 T. et al. (2007) <i>FEBS</i>	Death Differ 12 Suppl 2, est 115, 2679-88. 2 Soc Trans 35, 239-41. 22-8. ell 15, 3553-66. 23972-80. 5, 2652-63. Lett 581, 3396-404.	1509-18.	
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				

Cross-Reactivity Key H: Human M: Mouse R: Rat

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