

Phospho-WIPI2 (Ser413) Antibody



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Applications: W, IP	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 Immunoprecipitation			Dilution 1:1000 1:100	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Phospho-WIPI2 (Ser413) recognizes endogenous levels of WIPI2 protein only when phosphorylated at Ser413.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser413 of human WIPI2 protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		Autophagy is a catabolic process for the autophagosomic-lysosomal degradation of bulk cytoplasmic contents (1,2). It is generally activated by conditions of nutrient deprivation but is also associated with number of physiological processes, including development, differentiation, neurodegeneration, infection, and cancer (3). The molecular machinery of autophagy was largely discovered in yeast and is directed by a number of autophagy-related (Atg) genes.				
		Vps34, which generate: related WD-repeat prot shown that Atg18 bind: interaction with PtdIns: WD-repeat protein inte and WIPI2 have been s	s phosphoinositid teins that bind Ptd s to Atg2 and that 3P (8). Human ortl racting with phos hown to transloca	ontrolled by the class III e-3-phosphate (PtdIns3i Ins3P via a conserved P this complex is directed hologs of Atg18 and Atg phoinositides (WIPI) fam te from several vacuolai s translocation may be u	P) (4,5). Atg ¹ 8 and A he-Arg-Arg-Gly mot l to vacuolar memb 21 were identified a hily (9-11). WIPI1 (als r compartments to l	tg21 are two if (6,7). It has been ranes by its is members of the so called WIPI49) LC3-positive
		(CST) using PhosphoSc Ser413 was discovered	an, CST's LC-MS/M using Phospho-M	cted at a site that was id IS platform for modifical APK/CDK Substrate mot knowledgebase, at wwv	tion site discovery. F if antibody. Please	Phosphorylation at visit
Background References		1. Reggiori, F. and Klior 2. Codogno, P. and Mei 3. Levine, B. and Yuan, 4. Corvera, S. (2001) Tra 5. Yan, Y. and Backer, J.I 6. Krick, R. et al. (2006) 7. Strømhaug, P.E. et al 8. Obara, K. et al. (2008 9. Jeffries, T.R. et al. (20 10. Proikas-Cezanne, T. 11. Polson, H.E. et al. (2	jer, A.J. (2005) <i>Cell</i> J. (2005) <i>J Clin Inve</i> affic 2, 859-66. M. (2007) <i>Biochen</i> <i>FEBS Lett</i> 580, 463. (2004) <i>Mol Biol C</i> (2) <i>J Biol Chem</i> 283. 04) <i>Mol Biol Cell</i> 1 et al. (2007) <i>FEBS</i>	Death Differ 12 Suppl 2, est 115, 2679-88. a Soc Trans 35, 239-41. 32-8. cell 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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4° C with gentle shaking, overnight.

Applications Key W: Western Blotting IP: Immunoprecipitation

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

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