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Store at -20C	Atg4B Antibody		ll Signaling снмогоду [®]
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 48	Source: Rabbit	UniProt ID: #Q9Y4P1	Entrez-Gene Id: 23192		
Product Usage Information	-	plication stern Blotting			Dilution 1:1000			
Storage		plied in 10 mM sodi C. Do not aliquot the		5), 150 mM NaCl, 10	00 μg/ml BSA and 50% ς	glycerol. Store at –		
Specificity / Sensiti		Atg4B Antibody detects endogenous levels of total Atg4B protein. This antibody detects a band at ~27 kDa of unknown origin.						
Source / Purificatio	resid	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ser372 of human Atg4B protein. Antibodies are purified by protein A and peptide affinity chromatography.						
Background	cont auto like cons desc (Atg cyst Atg enzy conj recy Whil in th exce	ents. Control of aut phagy-related gene conjugation system served in eukaryote cribed, including thr 4A/autophagin-2, A eine protease Atg4 homolog for lipida yme Atg7. The Atg8 ugate. During later rcling the Atg8 homole le Atg4B displays a e corresponding At ess of inactive Atg4	tophagy was largely es (Atg) (1). Format is, Atg12-Atg5 and A es (2). Numerous m ee Atg8 proteins (G tg4B/autophagin-1, is pivotal to autoph tion by cleaving its homolog is transfe stages of autophag olog (6). broad specificity fo g4B gene can be a B blocks lipidation of	v discovered in yeas ion of autophagic ve Atg8-phosphatidylet ammalian counterpa GATE-16, GABARAF , Atg4C/autophagin- agosome membran carboxy terminus an wrred to the E2-like e y, Atg4 can reverse r Atg8 homologues, ssociated with stron of Atg8 homologues	somal degradation of but and involves proteins a esicles requires a pair of hanolamine (Atg8-PE), v arts to yeast Atg proteins P, and LC3) and four Atg- 3, and Atg4D/autophagin e generation and regula nd exposing its glycine re enzyme Atg3 before form this lipidation event by of it preferentially cleaves g inhibition of autophago and inhibits autophagy studi	encoded by a set of essential ubiquitin- which are widely s have been 4 homologs n-4) (3-5). The tion. Atg4 primes the esidue for E1-like hing the Atg8-PE cleaving PE, thereby LC3 (7-9). Mutation posome formation. An This makes Atg4B a		
Background Refere	2. O 3. Ka 4. Ka 5. M 6. Su 7. Hu 8. Ka 9. Ta 10. Fu	eggiori, F. and Klior hsumi, Y. (2001) <i>Na</i> abeya, Y. et al. (200 abeya, Y. et al. (200 ariño, G. et al. (200 ou, Y.S. et al. (200 emelaar, J. et al. (200 anida, I. et al. (2004 ujita, N. et al. (2009 ujita, N. et al. (2009	at Rev Mol Cell Biol 00) EMBO J 19, 572 04) J Cell Sci 117, 2 03) J Biol Chem 278 04) Mol Biol Cell 19, 4 003) J Biol Chem 279 04) J Cell Sci 117, 2 05) Mol Biol Cell 19, 4 063) J Biol Chem 279 074) J Cell Sci 117, 2 075) Mol Biol Chem 279 076) Mol Biol Cell 19, 4	20-8. 2805-12. 3, 3671-8. 4762-75. 278, 51841-50. 2805-12. 36268-76. 4651-9.	1.			
Species Reactivity	Spec	ies reactivity is dete	ermined by testing i	n at least one appro	oved application (e.g., we	estern 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 Cross-Reactivity Ke		Western Blotting						

3/23/24, 11:17 AM	Atg4B Antibody (#5299) Datasheet Without Images Cell Signaling Technology			
	 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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