e at -20C	Atg4A (D62C10) Rabbit mAb		Cell Signaling	
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Applications: WB, IP	<b>Reactivity:</b> H R	Sensitivity: Endogenous	<b>MW (kDa):</b> 48-60	Source/Isotype: Rabbit IgG	UniProt ID: #Q8WYN0	Entrez-Gene Id: 115201
Product Usage Information	We	pplication estern Blotting munoprecipitation			<b>Dilution</b> 1:1000 1:100	
Storage				7.5), 150 mM NaCl, 100 not aliquot the antibody		erol and less than
Specificity / Sensi	rec		ands within the	endogenous levels of to molecular weight range		
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human Atg4A protein.				
Background	con auti like con des (Atg enz con rec) Atg less inhi	ntents. Control of auto ophagy-related genes e conjugation systems inserved in eukaryotes scribed, including thre g4A/autophagin-2, Ato steine protease Atg4 is 18 homolog for lipidatio zyme Atg7. The Atg8 h njugate. During later s ycling the Atg8 homol 14A predominately cleaser efficiencies (4,7,8)	phagy was large s (Atg) (1). Form , Atg12-Atg5 and (2). Numerous e Atg8 proteins g4B/autophagin- s pivotal to autop on by cleaving it nomolog is trans tages of autopha og (6). aves GATE-16, ). Mutation in the formation. Expre	autophagosomic-lysoso ely discovered in yeast a ation of autophagic vesi d Atg8-phosphatidyletha mammalian counterparts (GATE-16, GABARAP, a 1, Atg4C/autophagin-3, ohagosome membrane g s carboxy terminus and ferred to the E2-like enz agy, Atg4 can reverse th athough it can cleave th e corresponding Atg4A g ession of this Atg4A mut phagy (9).	and involves proteins e cles requires a pair of nolamine (Atg8-PE), w s to yeast Atg proteins and LC3) and four Atg4 and Atg4D/autophagin generation and regulat exposing its glycine re syme Atg3 before form is lipidation event by c e other mammalian Att ene is critical for redox	ncoded by a set of essential ubiquitin- which are widely have been homologs h-4) (3-5). The ion. Atg4 primes the esidue for E1-like ing the Atg8-PE leaving PE, thereby g8 homologues with k regulation and
Background Refe	2. C 3. K 4. K 5. N 6. S 7. S 8. L	Dhsumi, Y. (2001) Nat Kabeya, Y. et al. (2000 Kabeya, Y. et al. (2004 Mariño, G. et al. (2003 Sou, Y.S. et al. (2008)	Rev Mol Cell Bi ) EMBO J 19, 5 ) J Cell Sci 117 ) J Biol Chem 2 Mol Biol Cell 19 al. (2003) J Biol iol Chem 286, 7	720-8. , 2805-12. 78, 3671-8. , 4762-75. / <i>Chem</i> 278, 14053-8. 327-38.		
Species Reactivity	<b>y</b> Spec	cies reactivity is deter	mined by testing	g in at least one approve	ed application (e.g., we	estern blot).
Western Blot Buff		ORTANT: For westerr % Tween® 20 at 4°C v		membrane with diluted ng, overnight.	primary antibody in 5%	6 w/v BSA, 1X TBS,
Applications Key Cross-Reactivity I		B: Western Blotting IP:	: Immunoprecipi	tation		

3/23/24, 11:23 AM	Atg4A (D62C10) Rabbit mAb (#7613) 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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