

## 15421

## LC3A (E5D5M) Rabbit mAb



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

<b>Applications:</b> W	Reactivity: H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 14, 16	Source/Isotype: Rabbit IgG	UniProt ID: #Q9H492	Entrez-Gene Id: 84557
Product Usage Information		<b>Application</b> Western Blotting			<b>Dilution</b> 1:1000	
Storage				i), 150 mM NaCl, 100 μg. ot aliquot the antibody.		rol and less than
Specificity/Sensitivity		LC3A (E5D5M) Rabbit mAb recognizes endogenous levels of total LC3A protein. No cross-reactivity was observed with other family members. Bands of unknown origin are detected between 60 and 80 kDa.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala96 of human LC3A protein.				
Background		contents (1,2). Autoph been associated with neurodegenerative di originally identified as and subsequently fou (5). Three human LC3 autophagy (6-9). Cleav cytosolic LC3-I form. I like system involving	agy is generally act a number of physic seases, infection, a s a subunit of micro nd to contain simila isoforms (LC3A, LC vage of LC3 at the c During autophagy, I Atg7 and Atg3 that of LC3 in autophago	autophagosomic-lysosomic descriptions of a logical processes included cancer (3). Autophage tubule-associated protein the total protein total protein the total protein the total protein the total protein total protein the total	nutrient deprivation ing development, o y marker Light Cha ins 1A and 1B (term Apg8/Aut7/Cvt5 cr posttranslational m iately following syr -II through lipidation e associated with a	n, but it has also lifferentiation, in 3 (LC3) was ned MAP1LC3) (4) itical for autophagy odifications during ithesis yields the on by a ubiquitin- utophagic vesicles
Background References		<ol> <li>Reggiori, F. and Klionsky, D.J. (2002) Eukaryot. Cell 1, 11-21.</li> <li>Codogno, P. and Meijer, A.J. (2005) Cell Death Differ. 12 Suppl 2, 1509-18.</li> <li>Levine, B. and Yuan, J. (2005) J. Clin. Invest. 115, 2679-88.</li> <li>Mann, S.S. and Hammarback, J.A. (1994) J. Biol. Chem. 269, 11492-97.</li> <li>Lang, T. et al. (1998) EMBO J. 17, 3597-607.</li> <li>Kabeya, Y. et al. (2000) EMBO J. 19, 5720-28.</li> <li>He, H. et al. (2003) J. Biol. Chem. 278, 29278-87.</li> <li>Tanida, I. et al. (2004) J. Biol. Chem. 279, 47704-10.</li> <li>Wu, J. et al. (2006) Biochem. Biophys. Res. Commun. 339, 437-42.</li> <li>Ichimura, Y. et al. (2000) Nature 408, 488-92.</li> <li>Kabeya, Y. et al. (2004) J. Cell Sci. 117, 2805-12.</li> </ol>				
Species Departies		Consider the standard standard		a in at least one annual	ad application (* *	

**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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