



Autophagy: Chapter 3. Mammalian Autophagy Can Occur Through an Atg5/Atg7-Independent Pathway

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Atg5 and Atg7 are considered to be essential molecules for the induction of macroautophagy. However, we found that cells lacking Atg5 or Atg7 can still form autophagosomes/autolysosomes and perform autophagy-mediated protein degradation when subjected to certain stresses. Although lipidation of LC3 is accepted to be a good indicator of macroautophagy, it did not occur during Atg5/Atg7-independent alternative macroautophagy. Unlike conventional macroautophagy, autophagosomes seemed to be generated in a Rab9-dependent manner by fusion of the phagophore with vesicles derived from the trans-Golgi and late endosomes. Mammalian macroautophagy can occur via at least two different pathways: the Atg5/Atg7-dependent conventional pathway, and the Atg5/Atg7-independent alternative pathway.



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