

# Product Datasheet

## ATG5 Antibody R-111-100

Unit Size: 0.1 ml

Store at -20C. Avoid freeze-thaw cycles.

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**R-111-100**

## ATG5 Antibody

Product Information	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	This product is unpurified. The exact concentration of antibody is not quantifiable.
<b>Storage</b>	Store at -20C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	No Preservative
<b>Reconstitution Instructions</b>	Reconstitute with 0.1 ml of sterilized water. Centrifuge to remove any insoluble material. Glycerol (1:1) may be added for an additional stability.
<b>Purity</b>	Unpurified
<b>Buffer</b>	Whole antisera

Product Description	
<b>Host</b>	Rabbit
<b>Gene ID</b>	9474
<b>Gene Symbol</b>	ATG5
<b>Species</b>	Human
<b>Immunogen</b>	A synthetic peptide corresponding to the C-terminal of human ATG-5L. No immunogenic carrier protein was conjugated to the immunogen.

Product Application Details	
<b>Applications</b>	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
<b>Recommended Dilutions</b>	Western Blot 1:200 - 1:1000, Immunohistochemistry 1:200 - 1:1000, Immunocytochemistry/ Immunofluorescence 1:200 - 1:1000, Immunohistochemistry-Paraffin 1:200 - 1:1000
<b>Application Notes</b>	IF usage was reported in scientific literature (PMID: 21555592).

## Publications

Shoji-Kawata S, Sumpter R, Leveno M et al. Identification of a candidate therapeutic autophagy-inducing peptide. *Nature*. 2013-02-14 [PMID: 23364696] (WB, Mouse, Human)

### Details:

Tat-beclin 1 (L-amino acid) / Tat-Beclin 1 L11 (NBP2-49886) and Tat-beclin 1 (D-amino acid)/Tat-Beclin 1 D11, Retroinverso form (NBP2-49888) along with the control peptide Tat-scrambled (L-amino acid)/Tat-Beclin 1 L11S Peptide, Scrambled Control (NBP2-49887) were tested in-vivo for the induction of autophagy. 6-week-old GFP-LC3 transgenic mice, and normal or CHIKV and WNV Egypt strain virus infected 5-day-old GFP-LC3 mice were injected intra-peritoneally (i.p.) with these Tat-beclin derivative peptides at a dose of 20 mg/Kg body weight (5.3uM/Kg). Brain tissues were analyzed using IHC-Frozen and Western blot analysis for measuring cell death (TUNEL Assay) and p62 expression respectively. Toxicity of these peptides was assessed in 6-day-old C57BL/6J mice via daily injections of Tat-scrambled (L-amino acid, Tat-Beclin 1 L11S) or Tat-beclin 1 (L-amino acid, Tat-Beclin 1 L11) at 15 mg kg<sup>-1</sup> and Tat-beclin 1 (D-amino acid, Tat-Beclin 1 D11) at a dose of 20 mg/Kg body weight for 2 weeks (Figure 4).

Greenberg JT. *Dev Cell*. 8(6):799-801. 2005-01-01 [PMID: 15935769]

Baehrecke EH. *Nat Rev Mol Cell Biol*. 6(6):505-10. 2005-01-01 [PMID: 15928714]

Lum JJ et al. *Nat Rev Mol Cell Biol*. 6(6):439-48. 2005-01-01 [PMID: 15928708]

Mizushima, N et al. *Int J Biochem Cell Biol*. 35(5), 553-61;. 2003-01-01 [PMID: 12672448]

Turkmen K, Martin J, Akcay A et al. Apoptosis and autophagy in cold preservation ischemia. *Transplantation*;91(11):1192-1197. 2011-06-15 [PMID: 21577181] (WB, Mouse)





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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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