

## Rabbit antibody to ATG4B (APG4B): whole serum

<b>Catalogue No.:</b>	R-157-100
<b>Description:</b>	<p>FUNCTION: Cysteine protease required for autophagy, which cleaves the C-terminal part of either MAP1LC3, GABARAP2 or GABARAP, allowing the liberation of form I. A subpopulation of form I is subsequently converted to a smaller form (form II). Form II, with a revealed C-terminal glycine, is considered to be the phosphatidylethanolamine (PE)-conjugated form, and has the capacity for the binding to autophagosomes. ENZYME REGULATION: Inhibited by N-ethylmaleimide. SUBCELLULAR LOCATION: Cytoplasm (Probable). ALTERNATIVE PRODUCTS: 5 named isoforms produced by alternative splicing. TISSUE SPECIFICITY: Mainly expressed in the skeletal muscle, followed by brain, heart, liver and pancreas. SIMILARITY: Belongs to the peptidase C54 family.</p>
<b>Batch No.:</b>	See product label
<b>Unit size:</b>	100 uL
<b>Antigen:</b>	<p>A synthetic peptide (CLERFFDSEDED) corresponding to the C-terminus of human ATG4B protein conjugated to Blue Carrier Protein has been used as the immunogen. The peptide is homologous with the corresponding sequence derived from of ATG4B protein in mouse and rat.</p>
<b>Other Names:</b>	<p>Cysteine protease ATG4B; Autophagy-related protein 4 homolog B; hAPG4B; Autophagin-1; Autophagy-related cysteine endopeptidase 1; AUT-like 1 cysteine endopeptidase; ATG4B; APG4B; AUTL1; KIAA0943;</p>
<b>Accession:</b>	<p>ATG4 B_HUMAN ATG4 B_MOUSE ATG4 B_RAT</p>
<b>Produced in:</b>	Rabbit
<b>Purity:</b>	Whole serum
<b>Applications:</b>	<p>IHC, immunofluorescence, WB. A dilution of 1:100 to 1:2000 dilution is recommended for these applications. Biosensis recommends optimal dilutions/concentrations should be determined by the end user.</p>
<b>Specificity:</b>	<p>IHC, WB and ELISA confirmed the specificity for ATG4B.</p>
<b>Cross-reactivity:</b>	<p>Human, rat. Other species not yet tested.</p>
<b>Form:</b>	Lyophilised
<b>Reconstitution:</b>	<p>Reconstitute in 100 uL of sterile water. Centrifuge to remove any insoluble material.</p>
<b>Storage:</b>	<p>After reconstitution keep aliquots at -20C for a higher stability, and at 2-8C with an appropriate antibacterial agent. Glycerol (1:1) may be added for an additional stability. Avoid repetitive freeze/thaw cycles.</p>
<b>Expiry Date:</b>	Six months after purchase
<b>Specific References:</b>	<p>1. A. J. Smuder et al (2011) Exercise protects against doxorubicin-induced markers of autophagy signaling in skeletal muscle. J Appl Physiol. 2011 Jul 21</p>

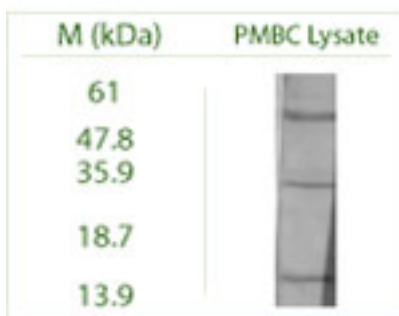
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FOR RESEARCH USE ONLY

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### References:

1. Marino G, et al. J. Biol. Chem. 278:3671-3678(2003).
2. Kabeya Y, et al. J. Cell Sci. 117:2805-2812(2004).
3. Nagase T, et al. DNA Res. 6:63-70(1999).
4. Ota T, et al. Nat. Genet. 36:40-45(2004).
5. Sugawara K, et al. J. Biol. Chem. 280:40058-40065(2005).
6. Kumanomidou T, et al. J. Mol. Biol. 355:612-618(2006).



Western blot on Peripheral Blood Mononuclear Cells (PMBC) lysate using Rabbit antibody to ATG4B (APG4B): whole serum (R-157-100) at a dilution of 1:100 (ECL)

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