



Mouse monoclonal antibody to human ATG12 [2H8]: IgG

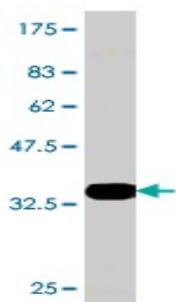
Catalogue No.:	M-879-100
Description:	Autophagy is a process of bulk protein degradation in which cytoplasmic components, including organelles, are enclosed in double-membrane structures called autophagosomes and delivered to lysosomes or vacuoles for degradation. ATG12 is the human homolog of a yeast protein involved in autophagy. ATG12 is conjugated to ATG5. The ATG12-ATG5 conjugate has an apparent molecular mass of 65 kDa. The C-terminal glycine of ATG12 is conjugated to a central lysine (lys130) of ATG5. Studies showed that over expression of ATG3 facilitated formation of the ATG12-ATG5 conjugate, suggesting that ATG3 cross-talks with the ATG12 conjugation system. ATG12 is ubiquitously expressed.
Batch No.:	See product label
Unit size:	100 µg
Antigen:	Full recombinant human ATG12, isoform 2, (1-74) with a GST tag.
Clone:	2H8
Other Names:	Autophagy-related protein 12; ATG12; APG12; APG12L; APG12-like;
Accession:	ATG12_HUMAN
Produced in:	Mouse
Purity:	Protein G purified immunoglobulin
Applications:	This antibody is recommended for WB, and sandwich ELISA. Biosensis recommends optimal dilutions/concentrations should be determined by the end user.
Specificity:	Specificity has been confirmed by WB and direct ELISA against the antigen.
Cross-reactivity:	Human. Other species have not been tested.
Form:	Lyophilised from PBS pH 7.2
Reconstitution:	Reconstitute in 100 µl of sterile water. Centrifuge to remove any insoluble material.
Storage:	After reconstitution keep aliquots at -20°C for higher stability or at 4°C with an appropriate antibacterial agent. Glycerol (1:1) may be added for additional stability. Avoid repetitive freeze/thaw cycles.
Expiry Date:	12 months after purchase
Specific References:	<ol style="list-style-type: none">1. Garrido-Maraver J. et al (2012) Screening of effective pharmacological treatments for MELAS syndrome using yeasts, fibroblasts and cybrids models of the disease Br J Pharmacol. 2012 Jul 2.2. De la Mata M. et al (2012) Recovery of MERRF fibroblasts and cybrids pathophysiology by Coenzyme Q₁₀; Neurotherapeutics. 2012 Apr;9(2):446-63.3. Bullon P et al (2012) Autophagy in periodontitis patients and gingival fibroblasts: unraveling the link between chronic diseases and inflammation. BMC Med. 2012 Oct 17;10:122.4. Rodriguez-Hernandez A et al (2009) Coenzyme Q deficiency triggers mitochondria degradation by mitophagy.

FOR RESEARCH USE ONLY



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Autophagy. 2009 Jan;5(1):19-32.



Western blot detection of GST tagged recombinant human ATG12. Note the GST tag alone is 26 kDa.

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