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 -20ºC for higher stability or at 4ºC 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:	De la Mata M. et al (2015) Pharmacological Chaperones and Coenzyme Q10 Treatment Improves Mutant ß-Glucocerebrosidase Activity and Mitochondrial Function in Neuronopathic Forms of Gaucher Disease. Sci Rep. 2015 Jun 5;5:10903. Garrido-Maraver J. et al (2015) Critical role of AMP-activated protein kinase in the balance between mitophagy and mitochondrial biogenesis in MELAS disease. Biochim Biophys Acta. 2015 Nov;1852(11):2535-53. Garrido-Maraver J. et al (2012) Screening of effective pharmacological treatments for MELAS syndrome using yeasts, fibroblasts and cybrids models of the disease.

FOR RESEARCH USE ONLY

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De la Mata M. et al (2012) Recovery of MERRF fibroblasts and cybrids pathophysiology by Coenzyme Q₁₀.
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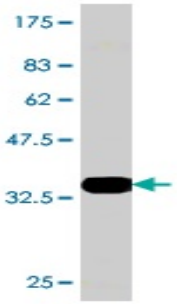

Western blot detection of GST tagged recombinant human ATG12. Note the GST tag alone is 26 kDa.

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