

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human ATG12 in direct ELISAs, and human and mouse ATG12 in Western blots.
Source	Monoclonal Mouse IgG _{2B} Clone # 628902
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human ATG12 Asp48-Ala187 Accession # O94817
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.	

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

ATG12 is a 15 kDa cytosolic protein with a C-terminal ubiquitin-like domain. The conjugation of ATG12 to ATG5 is required for the autophagosome pathway of bulk degradation. The ATG5:ATG12 heterodimer associates noncovalently with an ATG16 multimer to generate autophagosomes. The ATG5:ATG12 conjugate also inhibits type I interferon-induced antiviral responses and promotes the lipidation of ATG8. Alternate splicing of human ATG12 generates an isoform that lacks the ubiquitin-like domain. Human ATG12 shares 89% and 85% aa sequence identity with mouse and rat ATG12, respectively.

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