

DESCRIPTION

Species Reactivity	Human
Specificity	Detects endogenous human ATG10 in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human ATG10 Met1-Thr190 Accession # Q9H0Y0
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.

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

ATG10 (autophagy-related protein 10; also APG10-like) is a ubiquitous 28 kDa member of the ATG10 family of proteins. It serves as an E2-like enzyme during the initial stages of autophagosome formation by catalyzing the transfer of ATG12 to ATG5. This ATG5:ATG12 heterodimer subsequently associates non-covalently with an ATG16 multimer to generate an autophagosome. Human ATG10 is 220 amino acids in length and contains an active site at Cys166 that forms a thiol ester bond with the C-terminal Gly of ATG12. There are multiple isoform variants. One shows a deletion of aa 37-72, a second contains an alternate start site at Met43 that is accompanied by a 39 aa substitution for aa 152-220, and a third shows a 53 aa substitution for aa 73-220. Over amino acids 1-190, human ATG10 shares 79% aa identity with mouse ATG10.

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