Human/Mouse/Rat ATG3 Alexa Fluor® 488-conjugated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF5450G
100 µg

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects endogenous human, mouse and rat ATG3 in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human ATG3 Met1-His287 Accession # Q9NT62
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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

ATG3 (autophagy-related protein 3; also APG3-like and PC3-96) is a ubiquitous 45 kDa member of the ATG3 family of proteins. It functions as an E2-like enzyme during the initial stages of autophagosome formation by catalyzing the transfer of ATG7-bound ATG8 (known as LC3, GATE16 and GABA-RAP in mammals) to phosphatidylethanolamine, critical for autophagy. Human ATG3 is 314 amino acids in length and contains an active site at Cys264 that forms a thiol ester bond with the C-terminal Gly of ATG8. There are multiple potential isoform variants. Three show a 22, 28 and 35 aa substitution for aa 289-314, respectively, while a fourth shows an alternate start site at Met88 that may be accompanied by one of the afore mentioned substitutions. Over aa 1-287, human ATG3 shares 97.9% aa identity with mouse ATG3.

PRODUCT SPECIFIC NOTICES

Bio-Techne®
Global | bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL: 1.612.379.2956
USA | TEL: 800.343.7475 Canada | TEL: 855.668.8722 Europe | Middle East | Africa TEL: +44.0.1235.529449
China | info.cn@bio-techne.com TEL: 400.821.3475