Human/Mouse Beclin 1 Alexa Fluor® 594-conjugated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF5295T
100 µg

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human and mouse Beclin 1 in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human Beclin 1 Met12-Gln239 Accession # Q14457
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

Beclin 1 (Bcl-2 interacting coiled-coil protein; also know as ATG6) is a 60 kDa member of the Beclin family of proteins. It is part of a lipid-kinase complex that includes UVRAG and PI3 and induces autophagy; in the presence of Bcl-2, autophagy is repressed. Beclin 1 is widely expressed but abundantly found in mammary epithelium, glia and neurons. Human Beclin 1 is 450 amino acids (aa) in length and contains a Bcl-2 binding domain (aa 88-150), a nuclear export signal motif (aa 180-189), a coiled-coil region (aa 142-270), and an evolutionary conserved domain (aa 244-337). There is one potential alternate start site at Met88. Over aa 12-239, human Beclin 1 is 98% aa identical to mouse Beclin 1.

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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