

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human Beclin 1 in direct ELISAs. Detects human, mouse, and rat Beclin 1 in Western blots. In direct ELISAs, no cross-reactivity with recombinant human ATG3, 4A, 4B, 5, 7, 10, 12, or 16L1 is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 669922
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Beclin 1 Met12-Gln239 Accession # Q14457
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 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.
Immunohistochemistry	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 known 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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