

DESCRIPTION

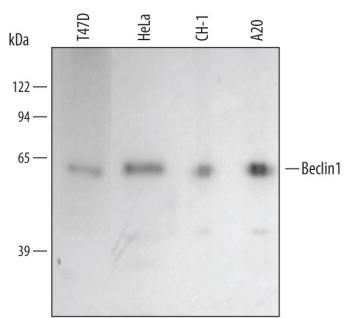
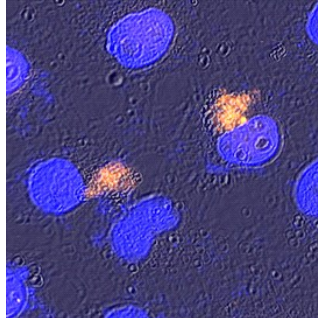
Species Reactivity	Human/Mouse
Specificity	Detects human and mouse Beclin 1/ATG6 in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human Beclin 1/ATG6 Met12-Gln239 Accession # Q14457
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

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.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below
Immunocytochemistry	5-15 µg/mL	See Below

DATA

<p>Western Blot</p>  <p>Detection of Human/Mouse Beclin 1/ATG6 by Western Blot. Western blot shows lysates of T47D human breast cancer cell line, HeLa human cervical epithelial carcinoma cell line, CH1 mouse B cell lymphoma cell line, and A20 mouse B cell lymphoma cell line. PVDF membrane was probed with 1 µg/mL of Sheep Anti-Human/Mouse Beclin 1/ATG6 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5295) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for Beclin 1/ATG6 at approximately 60 kDa (as indicated). This experiment was conducted using Immunoblot Buffer Group 2.</p>	<p>Immunocytochemistry</p>  <p>Beclin 1/ATG6 in HeLa Human Cell Line. Beclin 1/ATG6 was detected in immersion fixed HeLa human cervical epithelial carcinoma cell line using Sheep Anti-Human/Mouse Beclin 1/ATG6 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5295) at 15 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Sheep IgG Secondary Antibody (yellow; Catalog # NL010) and counterstained with DAPI (blue). Specific staining was localized to autophagosomes. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.</p>
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PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Beclin1 (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. Beclin1 is widely expressed but abundantly found in mammary epithelium, glia and neurons. Human Beclin1 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 Beclin1 is 98% aa identical to mouse Beclin1.