

Human/Mouse Beclin 1 Antibody

Antigen Affinity-purified Polyclonal Sheep IgG Catalog Number: AF5295

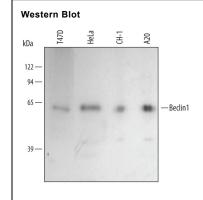
DESCRIPTION	
Species Reactivity	Human/Mouse
Specificity	Detects human and mouse Beclin 1 in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	E. coli-derived recombinant human Beclin 1 Met12-Gln239 Accession # Q14457
Formulation	Lyophilized from a 0.2 µm filtered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

APPLICATIONS

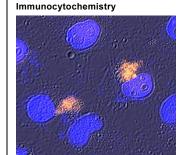
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

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

DATA



Detection of Human/Mouse Beclin 1 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 μ g/mL of Sheep Anti-Human/Mouse Beclin 1 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 at approximately 60 kDa (as indicated). This experiment was conducted using Immunoblot Buffer Group 2.



Beclin 1 in HeLa Human Cell Line.
Beclin 1 was detected in immersion fixed HeLa human cervical epithelial carcinoma cell line using Sheep Anti-Human/Mouse Beclin 1 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.

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. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months20 to -70 °C under sterile conditions after reconstitution.	

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 Pl3 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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