

DATASHEET

Beclin-1 Mouse Monoclonal Antibody(C3897)

CAT. NO. AMA03509

KEY FEATURES

Target	Beclin-1	Source / Host	Mouse
Reactivity	Human	Clonality	Monoclonal
Applications	WB, IHC, IF/ICC	Conjugation	Unconjugated
Form / Buffer	Mouse IgG3 kappa. Supplied in crude ascites with 0.01% sodium azide.	Storage	at-20°C

BACKGROUND

Plays a central role in autophagy . Acts as a core subunit of the PI3K complex that mediates formation of phosphatidylinositol 3-phosphate; different complex forms are believed to play a role in multiple membrane trafficking pathways: PI3KC3-C1 is involved in initiation of autophagosomes and PI3KC3-C2 in maturation of autophagosomes and endocytosis. Involved in regulation of degradative endocytic trafficking and required for the abscission step in cytokinesis, probably in the context of PI3KC3-C2 . Essential for the formation of PI3KC3-C2 but not PI3KC3-C1 PI3K complex forms. Involved in endocytosis . May play a role in antiviral host defense.

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
IHC	1:50 - 1:200
IF/ICC	1:10 - 1:50

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

Description	Mouse monoclonal antibody to Beclin-1
Specificity	Recognizes endogenous levels of Beclin-1 protein.
Antibody Type	Primary antibody
Immunogen	Recombinant fusion protein of human Beclin-1. The exact sequence is proprietary.
Molecular Weight	Predicted: 51 kD; Observed: 51 kD
Form/Buffer	Mouse IgG3 kappa. Supplied in crude ascites with 0.01% sodium azide.
Alternative Names	GT197; Beclin-1; Coiled-coil myosin-like BCL2-interacting protein; Protein GT197
Gene Symbol	BECN1
Entrez Gene	8678(Human)
SwissProt	Q14457(Human)

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

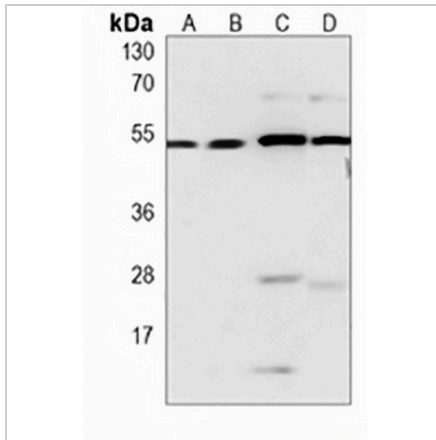
*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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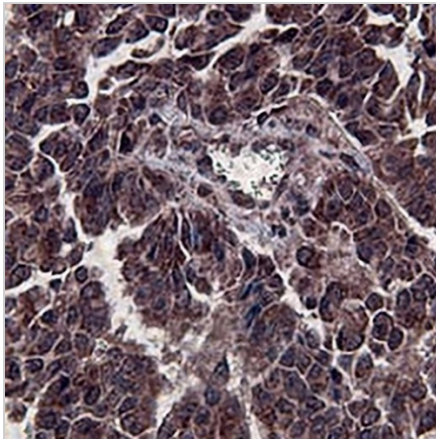
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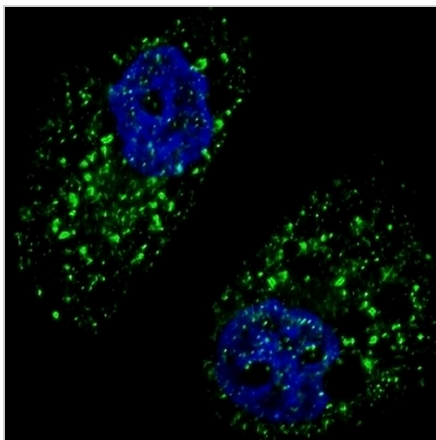
DATA



Western blot analysis of Beclin-1 expression in HepG2 (A), 293 (B), Jurkat (C), HeLa (D) whole cell lysates. (Predicted band size: 51 kD; Observed band size: 51 kD)



Immunohistochemical analysis of Beclin-1 staining in human breast carcinoma formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of Beclin-1 staining in U251 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a AREX® Fluor 488 -conjugated secondary antibody (green) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.