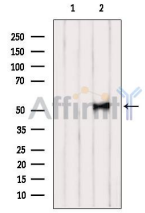
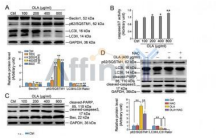
Beclin 1 Ab

Cat.#: AF5128	Concn.: 1mg/ml	Mol.Wt.: 52 kDa
Size: 100ul,200ul	Source: Rabbit	Clonality: Polyclonal

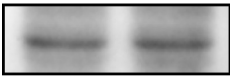
Application:	WB 1:500-1:2000 IHC 1:50, IF/ICC 1:100-1:500
Reactivity:	Human,Mouse,Rat
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink™ Coupling Resin (Thermo Fisher Scientific).
Specificity:	Beclin 1 Ab detects endogenous levels of total Beclin 1.
Immunogen:	A synthesized peptide derived from human Beclin 1.
Uniprot:	Q14457
Description:	Plays a central role in autophagy (By similarity). May play a role in antiviral host defense. Protects against infection by a neurovirulent strain of Sindbis virus.
Subcellular Location:	Golgi apparatus > trans-Golgi network membrane. Interaction with ATG14 promotes translocation to autophagosomes. Expressed in dendrites and cell bodies of cerebellar Purkinje cells.
Tissue Specificity:	Ubiquitous.
Similarity:	The coiled coil domain can form antiparallel homodimers and mediates dimerization with the coiled coil domains of ATG14 or UVRAG involved in the formation of PI3K complexes.The C-terminal evolutionary conserved domain (ECD) contains poly-Gln-binding domains such as the ATXN3 poly-Gln motif, consistent with structural docking models revealing two highly scored poly-Gln-binding pockets in the ECD (PubMed:28445460). As some binding is observed with BECN1 lacking the ECD, other domains of BECN1 may also interact with ATXN3 (PubMed:28445460).Belongs to the beclin family.
Storage Condition and Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20 °C.Stable for 12 months from date of receipt.



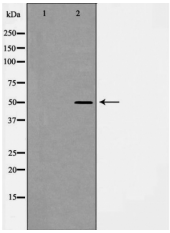
Western blot analysis of extracts from B16F10, using Beclin 1 Ab. The lane on the left was treated with blocking peptide.



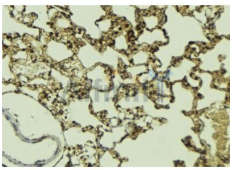
Sertoli cells cultured on dishes were treated on day 3 with 100-, 200-, 400- or 800 μg/ml OLA for 24 h. Cells treated with vehicle (0.2% DMSO) were used as negative control.



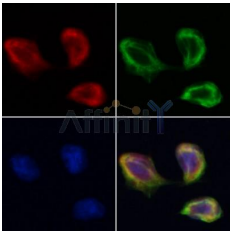
This image is a courtesy of anonymous review.



Western blot analysis of Beclin 1 expression in 293 cell lysate,The lane on the left is treated with the antigen-specific peptide.



AF5128 at 1/100 staining Mouse lung tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the Ab for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit Ab was used as the secondary.



AF5128 staining Hela by IF/ICC. The samples were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25°C. Samples were then incubated with primary Ab(AF5128 1:200) and mouse anti-beta tubulin Ab(T0023 1:200) for 1 hour at 37°C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(S0006 1:200 Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(S0017 1:600 Green) were used as the secondary

IMPORTANT: For western blot, incubate membrane with diluted primary Ab in 5% w/v milk , 1X TBS, 0.1% Tween®20 at 4°C with gentle shaking, overnight.