

Product datasheet

Anti-Beclin 1 antibody ab62557

★★★★★ [7 Abreviews](#) [266 References](#) [9 Images](#)

Overview

Product name	Anti-Beclin 1 antibody
Description	Rabbit polyclonal to Beclin 1
Host species	Rabbit
Tested applications	Suitable for: IHC-P, WB, ICC/IF
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide corresponding to Human Beclin 1 (N terminal). ab62557 was raised against a 17 amino acid synthetic peptide from near the amino terminus of human Beclin-1. The immunogen is located within amino acids 40 - 90 of Beclin-1. Database link: Q14457
Positive control	WB: HEK-293, A549, HeLa, HepG2, K562, MCF7 and SK-N-SH cell lines. Mouse heart, brain and colon tissue. Rat liver, lung, brain and colon tissue. IHC-P: Human brain tissue, mouse kidney and rat liver and spleen tissues. IF: Mouse brain. ICC/IF: HeLa cells.
General notes	For Western blot protocol see the applications section. For information on sample preparation for western blot, please refer here . The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	pH: 7.2 Preservative: 0.02% Sodium azide Constituent: PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab62557 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P	★★★★★ (2)	Use a concentration of 2 µg/ml.
WB	★★★★★ (4)	Use a concentration of 0.5 - 2 µg/ml. Detects a band of approximately 52 kDa (predicted molecular weight: 52 kDa). After transfer, wash membrane in TBST. Incubate membrane with 5% non-fat dry milk in TBS, 4C, overnight.. Dilute ab62557 to recommended dilution in 10mL of blocking buffer. Incubate membrane with ab62557 for 1 h at room temperature. Wash 3 times x 10 min in washing buffer with gentle
IF		Use a concentration of 20 µg/ml.
ICC/IF	★★★★★ (1)	1/100.

Target

Function

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.

Tissue specificity

Ubiquitous.

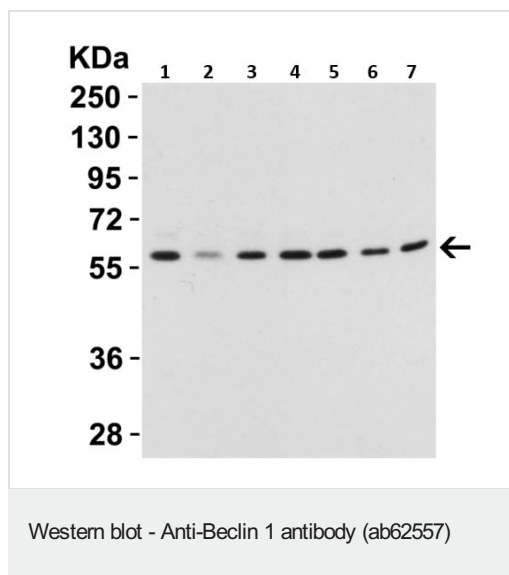
Sequence similarities

Belongs to the beclin family.

Cellular localization

Golgi apparatus > trans-Golgi network membrane. Interaction with ATG14 promotes translocation to autophagosomes. Expressed in dendrites and cell bodies of cerebellar Purkinje cells.

Images



All lanes : Anti-Beclin 1 antibody (ab62557) at 1 µg/ml

Lane 1 : 293 human cell line

Lane 2 : A549 human cell line

Lane 3 : HeLa cell line

Lane 4 : HepG2 cell line

Lane 5 : K562 cell line

Lane 6 : MCF7 cell line

Lane 7 : SK-N-SH cell line

Lysates/proteins at 15 µg per lane.

Secondary

All lanes : Rabbit IgG antibody (HRP) at 1/1000 dilution

Predicted band size: 52 kDa

Gel: 10%

Running condition: 130V, 1.5hrs

Transfer condition: Wet, 250mA, 2 hrs (NC membrane)

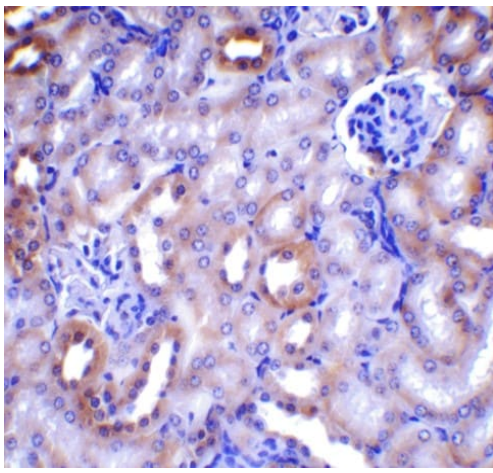
Blocking condition: 5% non-fat milk in TBS at 4 overnight

Primary antibody incubation: RT, 1hr

Secondary antibody incubation: RT, 1hr

Washing condition: 5 ml TBST, 4 x 5min

Exposure system: GE ECL 10 sec

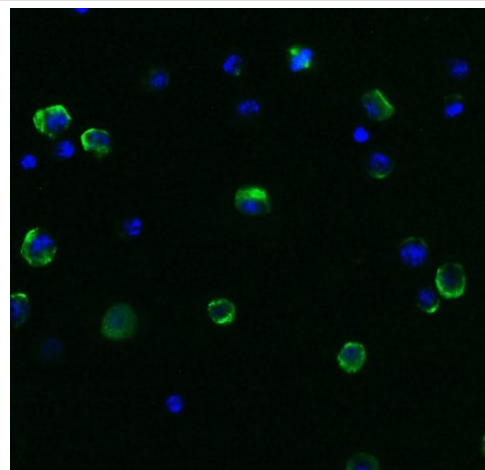


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Beclin 1 antibody (ab62557)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of mouse kidney tissue labelling Beclin 1 with **ab6257** at 1 µg/mL. Heat mediated antigen retrieval was performed using citrate buffer, pH 6.0, microwave, for 20min. Streptavidin-HRP Kit (Rabbit IgG) was used as the secondary antibody.

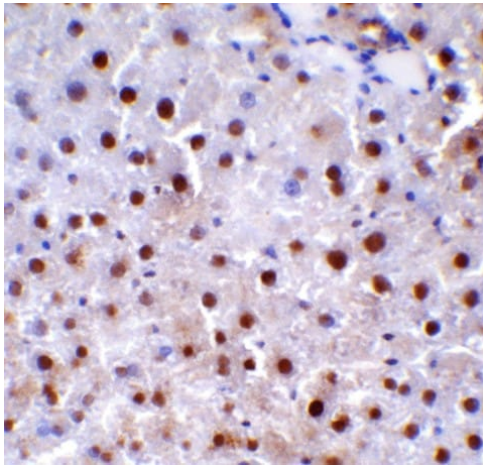
blocking condition: 5% BSA at Room Temperature for 1 hour

Chromagen system: DAB



Immunocytochemistry/ Immunofluorescence - Anti-Beclin 1 antibody (ab62557)

Immunofluorescence analysis of HeLa cells labelling Beclin 1 with ab62557 at 1/100 dilution. Cells were fixed with 4% paraformaldehyde at room temperature for 15 minutes and was permeabilized with 0.1% Triton X-100 at room temperature for 4 minutes. Rabbit IgG antibody (Alexa Fluor 488) at 1/2000 was used as the secondary antibody (green). Nuclear DNA was labelled with DAPI (blue).

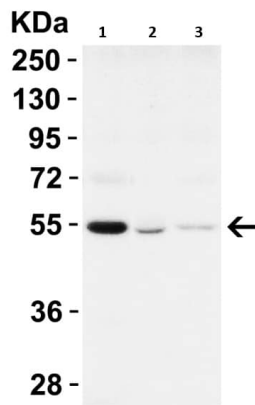


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Beclin 1 antibody (ab62557)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of rat liver tissue labelling Beclin 1 with **ab6257** at 1 µg/mL. Heat mediated antigen retrieval was performed using citrate buffer, pH 6.0, microwave, for 20min. Streptavidin-HRP Kit (Rabbit IgG) was used as the secondary antibody.

blocking condition: 5% BSA at Room Temperature for 1 hour

Chromagen system: DAB



Western blot - Anti-Beclin 1 antibody (ab62557)

All lanes : Anti-Beclin 1 antibody (ab62557) at 1 µg/ml

Lane 1 : Mouse heart tissue

Lane 2 : Mouse brain tissue

Lane 3 : Mouse colon tissue

Lysates/proteins at 15 µg per lane.

Secondary

All lanes : Rabbit IgG antibody (HRP) at 1/10000 dilution

Predicted band size: 52 kDa

Gel: 10%

Running condition: 130V, 1.5hrs

Transfer condition: Wet, 250mA, 2 hrs (NC membrane)

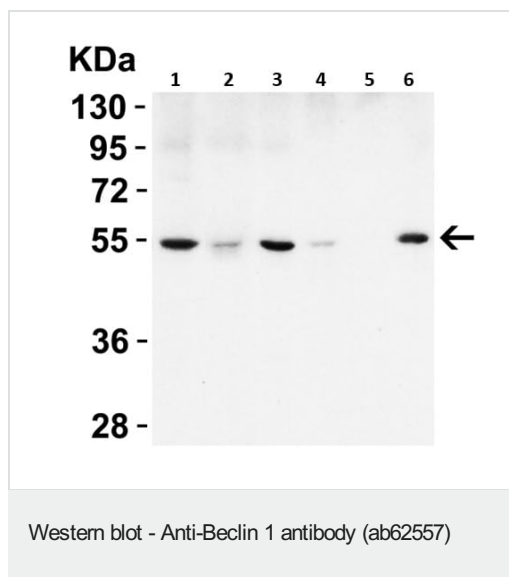
Blocking condition: 5% non-fat milk in TBS at 4 overnight

Primary antibody incubation: RT, 1hr

Secondary antibody incubation: RT, 1hr

Washing condition: 5 ml TBST, 4 x 5min

Exposure system: GE ECL 10 sec



All lanes : Anti-Beclin 1 antibody (ab62557) at 1 μ g

Lane 1 : Rat liver tissue

Lane 2 : Rat heart tissue

Lane 3 : Rat lung tissue

Lane 4 : Rat brain tissue

Lane 5 : Rat ovary tissue

Lane 6 : Rat colon tissue

Lysates/proteins at 15 μ g per lane.

Secondary

All lanes : Rabbit IgG antibody (HRP) at 1/10000 dilution

Predicted band size: 52 kDa

Gel: 10%

Running condition: 130V, 1.5hrs

Transfer condition: Wet, 250mA, 2 hrs (NC membrane)

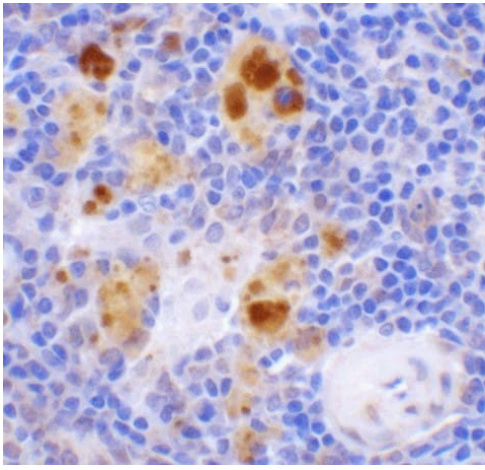
Blocking condition: 5% non-fat milk in TBS at 4 overnight

Primary antibody incubation: RT, 1hr

Secondary antibody incubation: RT, 1hr

Washing condition: 5 ml TBST, 4 x 5min

Exposure system: GE ECL 10 sec

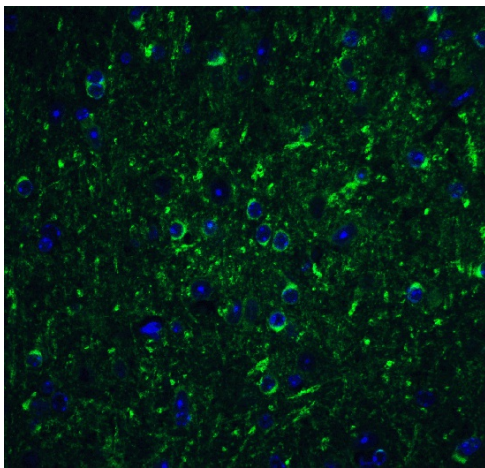


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Beclin 1 antibody (ab62557)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of rat spleen tissue labelling Beclin 1 with **ab6257** at 1 µg/mL. Heat mediated antigen retrieval was performed using citrate buffer, pH 6.0, microwave, for 20min. Streptavidin-HRP Kit (Rabbit IgG) was used as the secondary antibody.

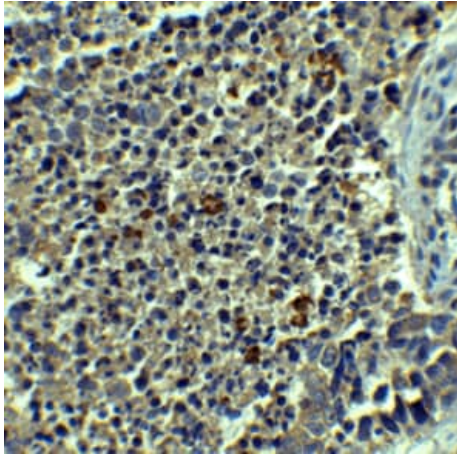
blocking condition: 5% BSA at Room Temperature for 1 hour

Chromagen system: DAB



Immunofluorescence - Anti-Beclin 1 antibody (ab62557)

ab62557 at 20 µg/mL staining Beclin 1 (green) in mouse brain tissue by Immunofluorescence. DAPI staining in blue.



Paraffin-embedded human brain tissue stained for Beclin 1 using ab62557 at 2.5 µg/ml in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Beclin 1 antibody (ab62557)

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