

# Product Datasheet

## Beclin 1 Antibody (9B6) NBP1-00088

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NBP1-00088**

Beclin 1 Antibody (9B6)

Product Information	
Unit Size	0.1 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	9B6
Preservative	0.05% Sodium Azide
Isotype	IgG1
Purity	Unpurified
Buffer	Ascites
Target Molecular Weight	52 kDa

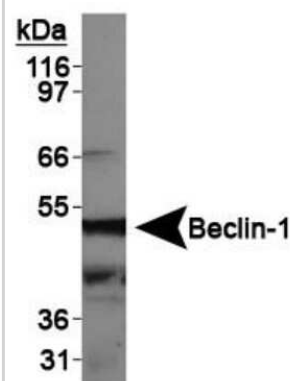
Product Description	
Host	Mouse
Gene ID	8678
Gene Symbol	BECN1
Species	Human, Mouse, Rat, Porcine, Bovine, Chicken, Equine, Primate
Immunogen	Full length human Beclin 1 protein [Swiss-Prot# Q14457]

Product Application Details	
Applications	Western Blot
Recommended Dilutions	Western Blot 1:1000
Application Notes	This Beclin 1 antibody is useful for IHC and WB, where a band is seen ~52 kDa. The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors.

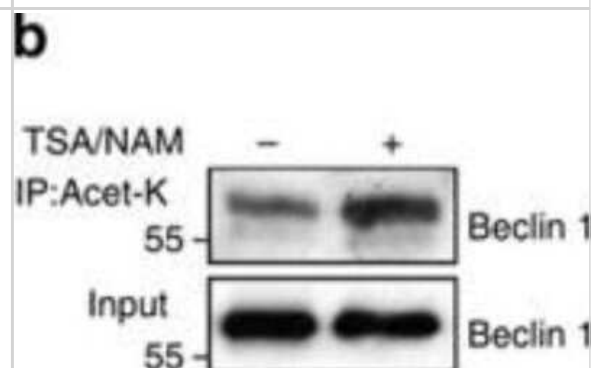


## Images

Western Blot: Beclin 1 Antibody (9B6) [NBP1-00088] - HeLa whole cell extract.



Western Blot: Beclin 1 Antibody (9B6) [NBP1-00088] - Beclin 1 is acetylated at lysines 430 and 437. Endogenous Beclin 1 is acetylated. Acetylated proteins were immunoprecipitated with the antibody to acetylated lysine from HEK293T cells after TSA and NAM treatments as indicated. Acetylation of endogenous Beclin 1 protein was analyzed with western blot analysis. Image collected and cropped by CiteAb from the following publication (<https://www.nature.com/articles/ncomms8215>), licensed under a CC-BY license.



## Publications

Fiorito F, Nocera F, Cantiello A et al. Bovine herpesvirus-1 infection in mouse neuroblastoma (Neuro-2A) cells Veterinary Microbiology 2020-08-01 [PMID: 32768214] (WB, Mouse)

Fiorito F, Iovane V, Cantiello A et al. MG-132 reduces virus release in Bovine herpesvirus-1 infection. Sci Rep. 2017-10-17 [PMID: 29042667] (WB, Bovine)

Sun T, Li X, Zhang P et al. Acetylation of Beclin 1 inhibits autophagosome maturation and promotes tumour growth. Nat Commun. 2015-05-26 [PMID: 26008601] (WB, Human)

## Procedures

### Serum protocol for Beclin 1 Antibody (NBP1-00088)

Beclin 1 Antibody (9B6):

Western Blot Protocol

1. Perform SDS-PAGE (4-12% MOPS) on samples to be analyzed, loading 38 ug of total protein per lane.
2. Transfer proteins to Nitrocellulose according to the instructions provided by the manufacturer of the transfer apparatus.
3. Rinse membrane with dH<sub>2</sub>O and then stain the blot using Ponceau S for 1-2 minutes to access the transfer of proteins onto the nitrocellulose membrane. Rinse the blot in water to remove excess stain and mark the lane locations and locations of molecular weight markers using a pencil.
4. Rinse the blot in TBS for approximately 5 minutes.
5. Block the membrane using 5% NFDM + 1% BSA in TBS + Tween, 1 hour at RT.
6. Rinse the membrane in dH<sub>2</sub>O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.
7. Dilute the rabbit anti-Beclin1 primary antibody (NBP1-100088) in blocking buffer and incubate 1 hour at room temperature.
8. Rinse the membrane in dH<sub>2</sub>O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.
9. Apply the diluted mouse-IgG HRP-conjugated secondary antibody in blocking buffer (as per manufacturers instructions) and incubate 1 hour at room temperature.
10. Wash the blot in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each (this step can be repeated as required to reduce background).
11. Apply the detection reagent of choice in accordance with the manufacturers instructions (Pierce ECL).

Note: Tween-20 can be added to the blocking or antibody dilution buffer at a final concentration of 0.05-0.2%, provided it does not interfere with antibody-antigen binding.





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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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