## For Research Use Only

## Beclin 1 Polyclonal antibody

Catalog Number:11306-1-AP

Featured Product

822 Publications

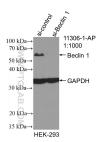


## Catalog Number: GenBank Accession Number: **Purification Method: Basic Information** 11306-1-AP BC010276 Antigen affinity purification GenelD (NCBI): Recommended Dilutions: Size: 150ul , Concentration: 400 $\mu g/ml$ by 8678 WB 1:1000-1:10000 Nanodrop: IP 0.5-4.0 ug for 1.0-3.0 mg of total UNIPROT ID: protein lysate Source Q14457 IHC 1:50-1:500 Rabbit Full Name: IF 1:20-1:200 Isotype beclin 1, autophagy related lgG Calculated MW: Immunogen Catalog Number: 52 kDa AG1843 **Observed MW:** 52-60 kDa **Tested Applications: Positive Controls: Applications** WB, IP, IF, IHC, ELISA WB: C6 cells, HEK-293 cells, Raji cells, L02 cells, PC-3 **Cited Applications:** cells, A431 cells, HT-1080 cells, human placenta WB, IP, IF, IHC, CoIP tissue, mouse brain tissue, rat brain tissue, HeLa cells, NIH/3T3 cells, MDA-MB-453s cells, SH-SY5Y cells **Species Specificity:** human, mouse, rat IP: MDA-MB-453s cells, **Cited Species:** IHC : human breast cancer tissue, human breast human, goat, chicken, rat, mouse, fish, zebrafish, hyperplasia tissue, human prostate hyperplasia tissue, hamster, pig, duck human cervical cancer tissue, human colon cancer tissue, human stomach tissue, human liver cancer Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen tissue retrieval may be performed with citrate IF: NIH/3T3 cells, mouse heart tissue buffer pH 6.0 Beclin 1, also known as ATG6 or VPS30, interacts with various cofactors (e.g. Ambra 1, Barkor (Atg14), Rubicon, or **Background Information** UVRAG) to regulate the lipid kinase Vps34 and promote the formation of the BECLIN1-Vps34-Vps15 complex, hence inducing autophagy. Its function (via the BH3 domain) is inhibited by Bcl-2 or Bcl-XL Beclin 1 (BECN1) is a crucial molecule in the control of the autophagic activity, and its activity is regulated by multiple mechanisms, including the post-translational modification, protein-protein interaction, and subcellular localization. It plays a role in crosstalk between apoptosis and autophagy. It has been reported that Beclin 1 can be cleaved into fragments of 50, 37 and 35 kDa during apoptosis. It is involved in many disorders, including neurodegeneration and cancer (tumorigenesis). Beclin 1 is a mammalian tumor suppressor, and its gene is monoallelically deleted in 75% of ovarian, 50% of breast, and 40% of prostate cancers. Decreased expression of Beclin 1 has also been observed in human brain and lung tumors. The level of Beclin 1 was decreased in the affected brain regions of patients with Alzheimer's disease early in the disease process. Recent studies have also shown that gain and loss of Beclin 1 function affects the death of heart cells. Notable Publications Author Pubmed ID Journal Application Samana Batool 30274346 Int J Mol Sci WB Jiawei Hao 36126167 Autophagy WB Cell Death Discov WB Wenyuan Li 34588431 Storage Storage Store at -20°C. Stable for one year after shipment. Storage Buffer PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Aliquoting is unnecessary for -20°C storage \*\*\* 20ul sizes contain 0.1% BSA

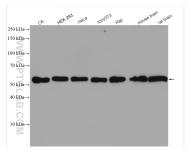
For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free<br/>in USA), or 1(312) 455-8498 (outside USA)E: proteintech@ptglab.comW: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

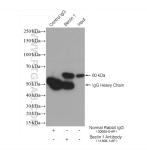
## Selected Validation Data



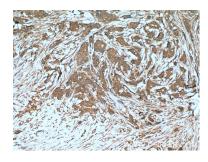
WB result of Beclin 1 antibody (11306-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Beclin 1 transfected HEK-293 cells.



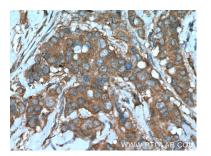
Various lysates were subjected to SDS PAGE followed by western blot with 11306-1-AP (Beclin 1 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



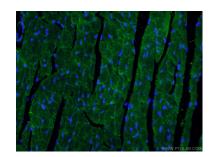
IP result of anti-Beclin 1 (IP:11306-1-AP, 4ug: Detection:11306-1-AP 1:1000) with MDA-MB-453s cells lysate 2800 ug.



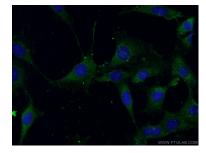
Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 11306-1-AP (Beclin 1 Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



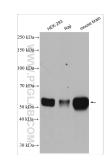
Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 11306-1-AP (Beclin 1 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



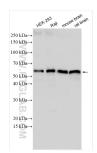
Immunofluorescent analysis of (4% PFA) fixed mouse heart tissue using 11306-1-AP (Beclin 1 antibody) at dilution of 1:50 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



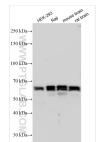
Immunofluorescent analysis of NIH/3T3 cells using 11306-1-AP (Beclin 1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).

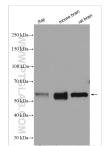


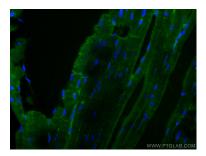
Various lysates were subjected to SDS PAGE followed by western blot with 11306-1-AP (Beclin 1 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



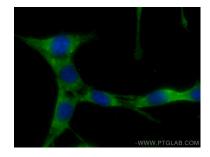
Various lysates were subjected to SDS PAGE followed by western blot with 11306-1-AP (Beclin 1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.







Various lysates were subjected to SDS PAGE followed by western blot with 11306-1-AP (Beclin 1 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours. Various lysates were subjected to SDS PAGE followed by western blot with 11306-1-AP (Beclin 1 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours. Immunofluorescent analysis of (4% PFA) fixed mouse heart tissue using Beclin 1 antibody (11306-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (-20°C Ethanol) fixed NIH/3T3 cells using Beclin 1 antibody (11306-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).