**bsm-33323M** **[ Primary Antibody ]**

# Beclin 1 Mouse mAb

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## DATASHEET

**Host:** Mouse
**Isotype:** IgG
**Clonality:** Monoclonal
**CloneNo.:** 7B12
**GeneID:** 8678
**SWISS:** Q14457
**Target:** Beclin 1
**Purification:** affinity purified by Protein G
**Concentration:** 1mg/ml
**Storage:** Size : 50ul/100ul/200ul
0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Size : 200ug (PBS only)
0.01M PBS
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

**Background:** Beclin 1 is the first identified mammalian gene to mediate autophagy and also has tumor suppressor and antiviral function. Autophagy, a process of bulk protein degradation through an autophagosomic lysosomal pathway, is important for differentiation, survival during nutrient deprivation, and normal growth control, and is often defective in tumor cells. Beclin 1 was originally isolated in a yeast two hybrid screen to identify Bcl 2 binding partners and maps to a tumor susceptibility locus on human chromosome 17q21 that is frequently monoallelically deleted in human breast, ovarian and prostate cancer. Beclin 1 encodes an evolutionarily conserved 52kDa coiled coil protein that is expressed in human muscle, epithelial cells and neurons.

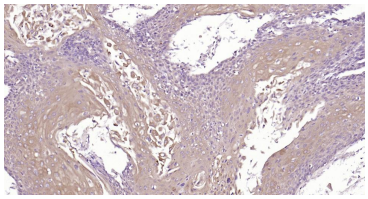
**Applications:** **IHC-P** (1:100-500)
**IHC-F** (1:100-500)
**IF** (1:100-500)

**Reactivity:** Human, Mouse, Rat

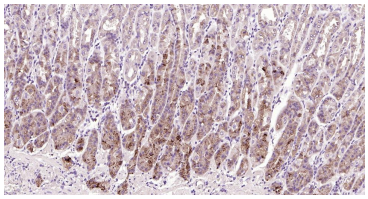
**Predicted MW.:** 50 kDa

**Subcellular Location:** Cell membrane ,Cytoplasm

## VALIDATION IMAGES



Paraformaldehyde-fixed, paraffin embedded Human Cervical Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with Beclin 1 Monoclonal Antibody, Unconjugated (ascites of bsm-33323M) at 1:200 overnight at 4°C, followed by conjugation to the bs-40296G-HRP and DAB (C-0010) staining.



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## SELECTED CITATIONS


- **[IF=13.3]** Ze-Min Li. et al. Bunyavirus SFTSV NSs utilizes autophagy to escape the antiviral innate immune response. AUTOPHAGY. 2024 May IP,WB,Co-IP ;Human. 38762760
- **[IF=8.469]** Mao, Shaowei. et al. FKBP51 promotes invasion and migration by increasing the autophagic degradation of TIMP3 in clear cell renal cell carcinoma. Cell Death Dis. 2021 Oct;12(10):1-15 IF ;Human. 34599146
- **[IF=5.988]** Zhao-Jie Ji. et al. Neuroprotective Effect of Taohong Siwu Decoction on Cerebral Ischemia/Reperfusion Injury via Mitophagy-NLRP3 Inflammasome Pathway. FRONT PHARMACOL. 2022; 13: 910217 IF ;Rat. 35754465


Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

- **[IF=5.4]** Xiaoxiao Shan. et al. Kai-Xin-San ameliorates Alzheimer's disease-related neuropathology and cognitive impairment in APP/PS1 mice via the mitochondrial autophagy-NLRP3 inflammasome pathway. J ETHNOPHARMACOL. 2024 Apr;:118145 WB ;Mouse. 38582153
- **[IF=5.4]** Wenzhou Wang. et al. Mechanistic Insights into Yunpi–Xiefei–Huatan decoction effects on autophagy and MUC5AC secretion in rat tracheal epithelial cells via the TGF-β3/Smad2/Smad3 pathway. J ETHNOPHARMACOL. 2026 Feb;357:120922 WB ;Rat. 41260547

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