bsm-33386M **[Primary Antibody]**

ATG5/APG5L Mouse mAb

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DATASHEET

Host: Mouse
Isotype: IgG
Clonality: Monoclonal
CloneNo.: 10C4
GeneID: 9474
SWISS: Q9H1Y0
Target: ATG5/APG5L
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: In yeast, autophagy is an essential process for survival during nutrient starvation and cell differentiation. The process of autophagy is characterized as a non-selective degradation of cytoplasmic proteins into membrane stuctures called autophagosomes, and it is dependent on several proteins, including the autophagy proteins APG5 and APG7. Yeast Apg7 and the human homolog, APG7, share similarities with the ubiquitin-activating enzyme E1 in Saccharomyces cerevisiae and are likewise responsible for enzymatically activating the autophagy conjugation system. Apg5 and the human homolog, APG5 (also designated apoptosis-specific protein or APS), function as substrates for the autophagy protein Apg12. These proteins are covalently bonded together to form Apg12/APG5 conjugates, which are required for the progression of autophagy.

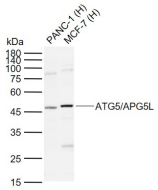
Applications: **WB** (1:500-1000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Human, Mouse, Rat

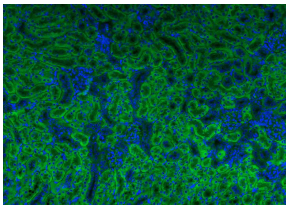
Predicted MW.: 32 kDa

Subcellular Location: Cytoplasm

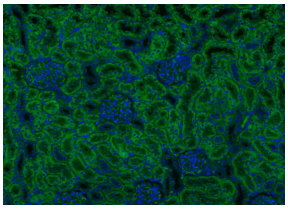
VALIDATION IMAGES



Sample: Lane 1: Human PANC-1 cell lysates Lane 2: Human MCF-7 cell lysates Primary: Anti-ATG5/APG5L (bsm-33386M) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution Predicted band size: 32 kDa Observed band size: 47 kDa



Paraformaldehyde-fixed, paraffin embedded (mouse kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (ATG5/APG5L) Polyclonal Antibody, Unconjugated (bsm-33386M) at 1:200 overnight at 4°C, followed by a conjugated Goat Anti-mouse IgG antibody (bs-0296G-AF488) for 90 minutes, and DAPI for nuclei staining.



Paraformaldehyde-fixed, paraffin embedded (rat kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (ATG5/APG5L) Polyclonal Antibody, Unconjugated (bsm-33386M) at 1:200 overnight at 4°C, followed by a conjugated Goat Anti-mouse IgG antibody (bs-0296G-AF488) for 90 minutes, and DAPI for nuclei staining.