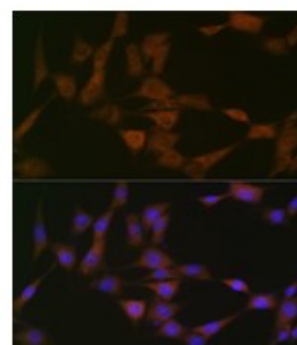
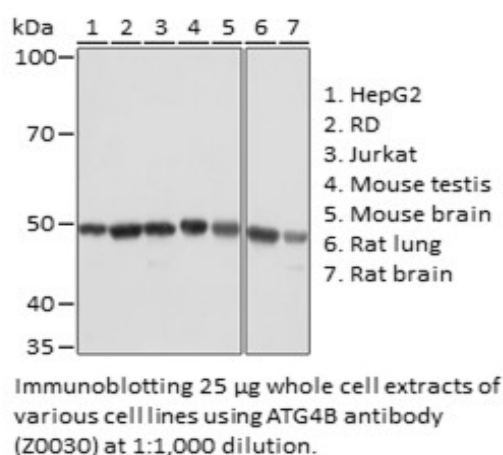


**Product Name:** ATG4B Rabbit mAb  
**Catalog #:** Z0030-20; Z0030-100  
**Also Known As:** APG4B; AUTL1  
**Quantity:** 20 µl for Z0030-20; 100 µl for Z0030-100  
**Concentration:** See labels on tube  
**Host Species:** Rabbit  
**Isotype:** IgG  
**Reactivity:** Human, Mouse, Rat  
**Immunogen:** A synthesized peptide derived from human ATG4B.  
**Swiss Prot. #:** Q9Y4P1  
**Calculated MW:** 44 kDa  
**Detected MW:** 48 kDa  
**Applications:** WB (1:500 - 1:2,000)  
 IF (1:50 - 1:200)  
 IP (not tested)  
 IHC (not tested)  
 Note: Antibody dilution should be optimized by users.

**Images:**



Immunofluorescence of NIH3T3 cells using ATG4B antibody (Z0030) at 1:100 dilution. Blue: DAPI nuclear staining.

**Purification:** Protein A or G affinity purification  
**Buffer:** PBS with 0.02% sodium azide, 0.05% BSA, 50% glycerol, pH7.3  
**Storage:** Store at -20°C. Centrifuge to maximize product recovery.  
**Background:** ATG4B is a cysteine protease required for the cytoplasm to vacuole transport (Cvt) and autophagy. Cleaves the C-terminal amino acid of ATG8 family proteins MAP1LC3, GABARAPL1, GABARAPL2 and GABARAP, to reveal a C-terminal glycine. Exposure of the glycine at the C-terminus is essential for ATG8 proteins conjugation to phosphatidylethanolamine (PE) and insertion to membranes, which is necessary for autophagy. Has also an activity of delipidating enzyme for the PE-conjugated forms.  
**Reference:** 1. Kabeya Y, et al. (2004) J Cell Sci 117, 2805 - 2812.  
 2. Tanida I, et al. (2004) J Biol Chem 279, 36268 - 36276.  
**Note:** This product is for research use only.