

Apg7 Rabbit mAb

Catalog No: #48968



Package Size: #48968-1 50ul #48968-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

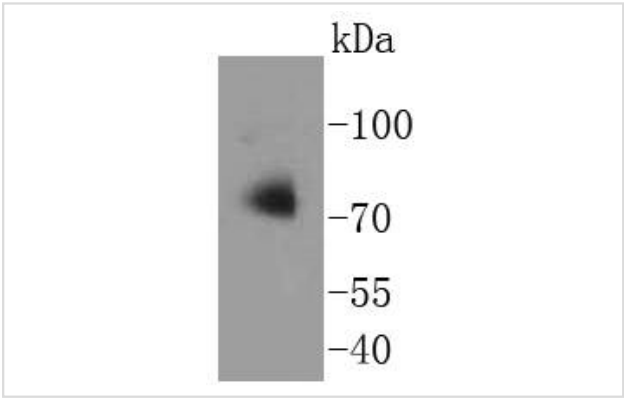
Description

Product Name	Apg7 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	SC06-30
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC, IP, FC
Species Reactivity	Hu
Immunogen Description	recombinant protein
Other Names	1810013K23Rik antibody Apg 7 antibody APG7 autophagy 7 like antibody APG7 autophagy 7-like (S. cerevisiae) antibody APG7 like antibody APG7, S. cerevisiae, homolog of antibody APG7-like antibody APG7L antibody ATG 7 antibody ATG12-activating enzyme E1 ATG7 antibody ATG7 antibody ATG7 autophagy related 7 homolog (S. cerevisiae) antibody ATG7 autophagy related 7 homolog antibody ATG7_HUMAN antibody Atg7I antibody Autophagy 7, S. cerevisiae, homolog of antibody Autophagy related protein 7 antibody Autophagy-related 7 (yeast) antibody Autophagy-related protein 7 antibody DKFZp434N0735 antibody GSA 7 antibody GSA7 antibody hAGP7 antibody Ubiquitin activating enzyme E1 like protein antibody Ubiquitin-activating enzyme E1-like protein antibody Ubiquitin-like modifier-activating enzyme ATG7 antibody
Accession No.	Swiss-Prot#:O95352
Calculated MW	78 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

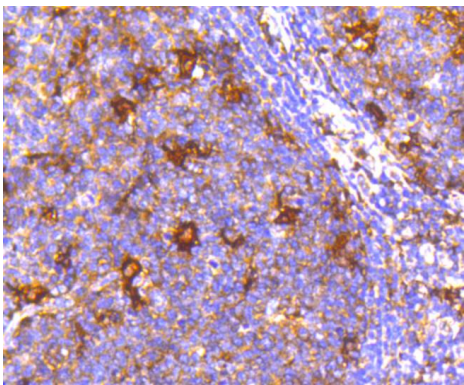
Application Details

WB: 1:1,000-1:2,000 IHC: 1:50-1:200 ICC: 1:50-1:200FC: 1:50-1:100

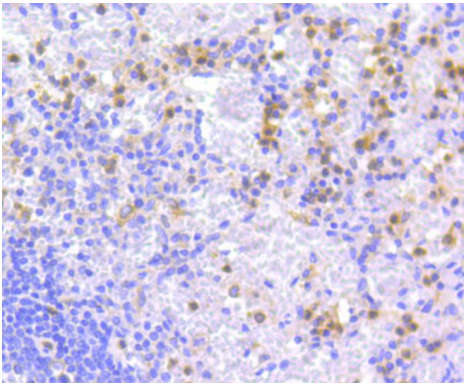
Images



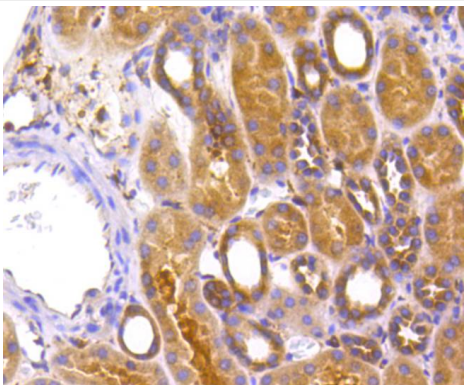
Western blot analysis of Apg7 on Jurkat cells lysates using anti-Apg7 antibody at 1/1,000 dilution.



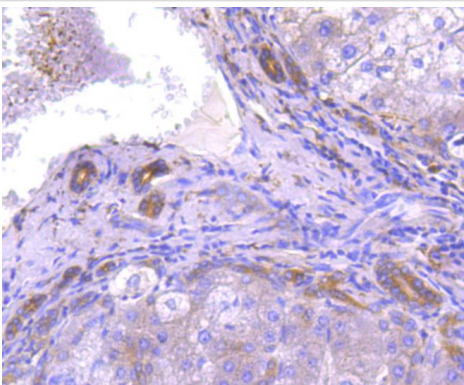
Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-Apg7 antibody. Counter stained with hematoxylin.



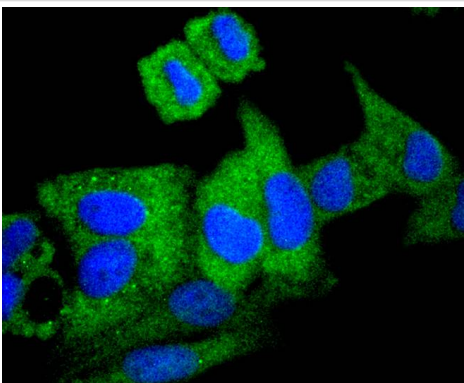
Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-Apg7 antibody. Counter stained with hematoxylin.



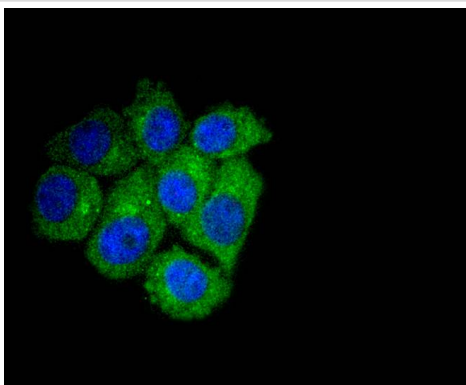
Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-Apg7 antibody. Counter stained with hematoxylin.



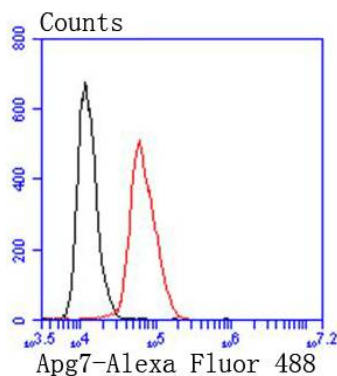
Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-Apg7 antibody. Counter stained with hematoxylin.



ICC staining Apg7 in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining Apg7 in HepG2 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of Hela cells with Apg7 antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.

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 structures 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.

References

1. He G et al. Gadd45b prevents autophagy and apoptosis against rat cerebral neuron oxygen-glucose deprivation/reperfusion injury. *Apoptosis* 21:390-403 (2016).
2. Nazarko TY et al. Peroxisomal Atg37 binds Atg30 or palmitoyl-CoA to regulate phagophore formation during pexophagy. *J Cell Biol* 204:541-57 (2014).

Note: This product is for in vitro research use only and is not intended for use in humans or animals.