Data Sheet (Cat.No.TMAC-00243)

Anti-Apg7 Antibody (7C583)

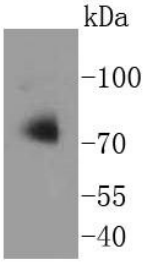
Product Details

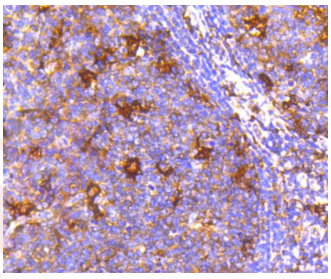
Ig Type:	IgG
Reactivity:	Human
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 78 kDa.
Clone:	7C583
Purification:	ProA affinity purified

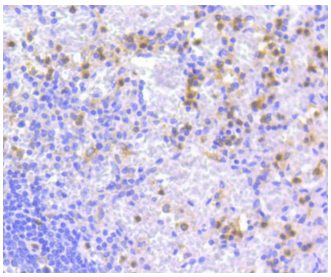
Applications

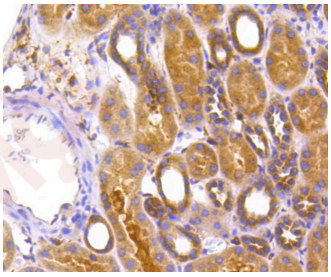
Verified Activity:

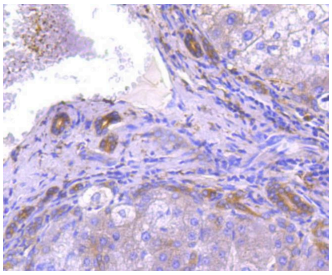
1. Western blot analysis of Apg7 on Jurkat cells lysates using anti-Apg7 antibody at 1/1,000 dilution.
2. Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-Apg7 antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-Apg7 antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-Apg7 antibody. Counter stained with hematoxylin.
5. Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-Apg7 antibody. Counter stained with hematoxylin.
6. 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.
7. 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.
8. 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.

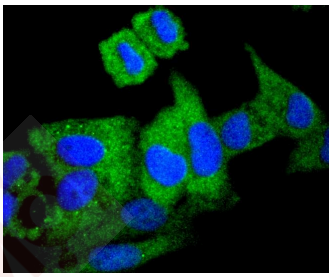


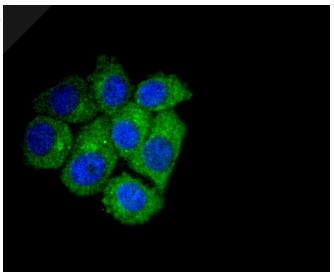


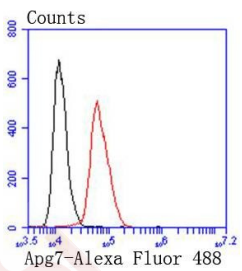












Application: FCM,ICC/IF,IHC,IP,WB

Recommended WB: 1:1000-2000; IHC: 1:50-200; ICC/IF: 1:50-200; FCM: 1:50-100

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: O95352

Synonyms: APG7 autophagy 7-like(S. cerevisiae);Autophagy 7, S. cerevisiae, homolog of;ATG7 autophagy related 7 homolog;Autophagy related protein 7;APG7, S. cerevisiae, homolog of;Ubiquitin activating enzyme E1 like protein;APG7 like;GSA7;ATG 7;Apg 7;ATG7 autophagy related 7 homolog(S. cerevisiae);hAGP7;Atg7l;APG7 autophagy 7 like;DKFZp434N0735;Autophagy-related 7(yeast);APG7L;GSA 7

Research 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.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481