OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for CF503370

Apg3 (ATG3) Mouse Monoclonal Antibody [Clone ID: OTI4F6]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI4F6
Applications:	FC, IF, IHC, WB
Recommended Dilution:	WB 1:2000, IHC 1:150, IF 1:100, FLOW 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human ATG3(NP_071933) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	35.7 kDa
Gene Name:	autophagy related 3
Database Link:	NP_071933 Entrez Gene 67841 MouseEntrez Gene 171415 RatEntrez Gene 64422 Human Q9NT62

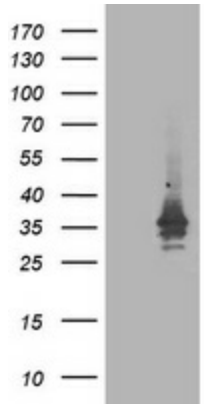
View online »

Background: Autophagy is a process of bulk degradation of cytoplasmic components by the lysosome or vacuole. Human ATG3 displays the same enzymatic characteristics in vitro as yeast Apg3, a protein-conjugating enzyme essential for autophagy (Tanida et al., 2002 [PubMed 11825910]). [supplied by OMIM]

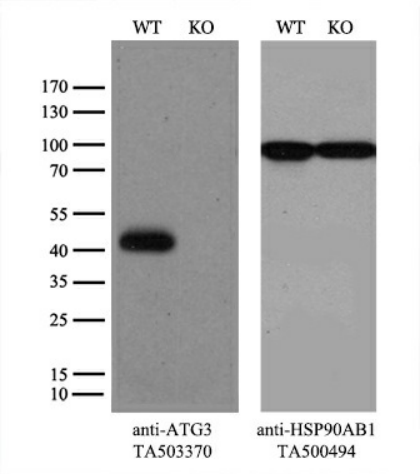
Synonyms: APG3; APG3-LIKE; APG3L; PC3-96

Protein Pathways: Regulation of autophagy

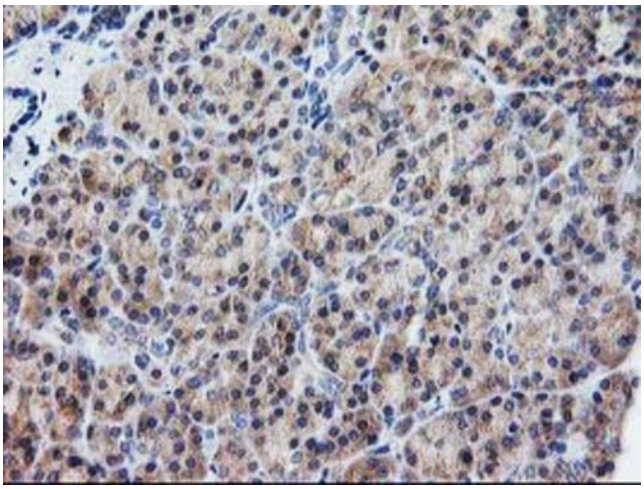
Product images:



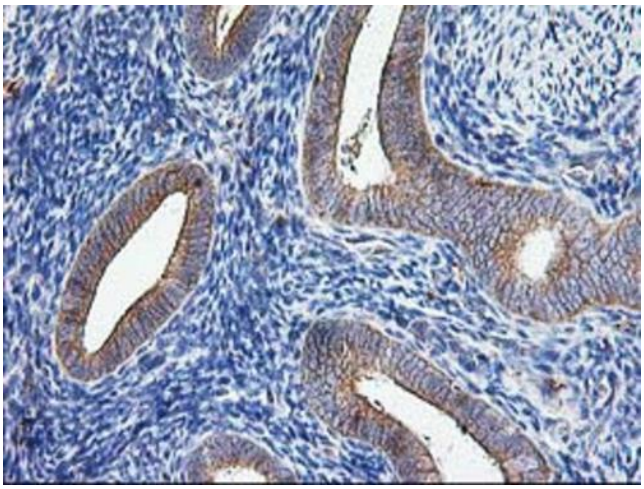
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY ATG3 ([RC203453], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ATG3. Positive lysates [LY411559] (100ug) and [LC411559] (20ug) can be purchased separately from OriGene.



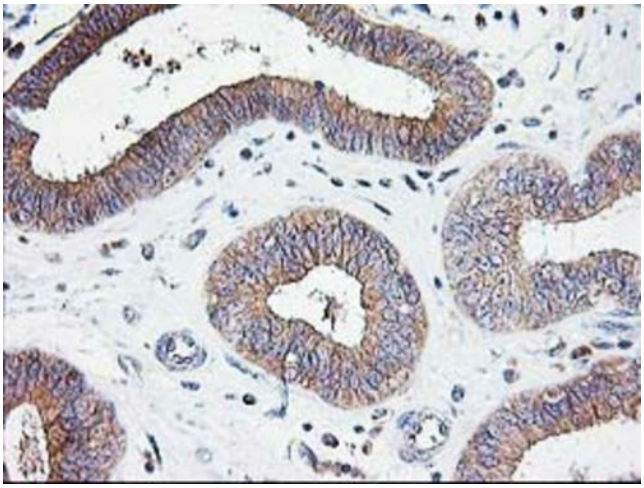
Equivalent amounts of cell lysates (10 ug per lane) of wild-type 293T cells (WT, Cat# LC810293T) and ATG3-Knockout 293T cells (KO, Cat# [LC812022]) were separated by SDS-PAGE and immunoblotted with anti-ATG3 monoclonal antibody [TA503370], (1:500). Then the blotted membrane was stripped and reprobed with anti-HSP90AB1 antibody ([TA500494]) as a loading control.



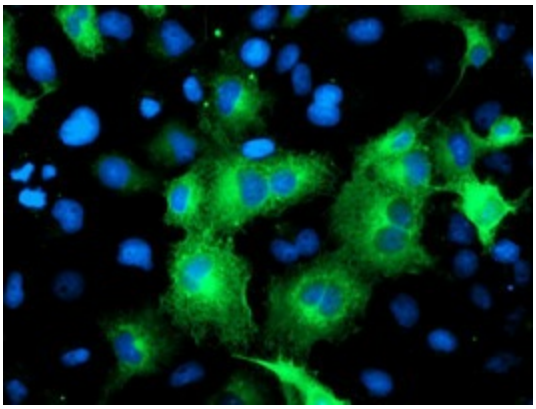
Immunohistochemical staining of paraffin-embedded Human pancreas tissue within the normal limits using anti-ATG3 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



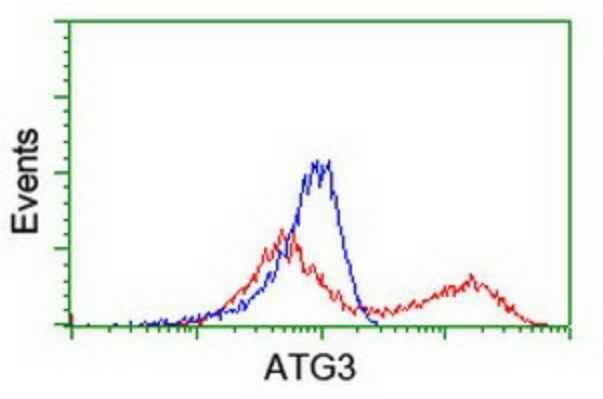
Immunohistochemical staining of paraffin-embedded Human endometrium tissue within the normal limits using anti-ATG3 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human endometrium tissue using anti-ATG3 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Anti-ATG3 mouse monoclonal antibody ([TA503370]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY ATG3 ([RC203453]).



HEK293T cells transfected with either [RC203453] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-ATG3 antibody ([TA503370]), and then analyzed by flow cytometry.