

## Product datasheet for **TA503161**

### **Apg3 (ATG3) Mouse Monoclonal Antibody [Clone ID: OTI2C12]**

#### **Product data:**

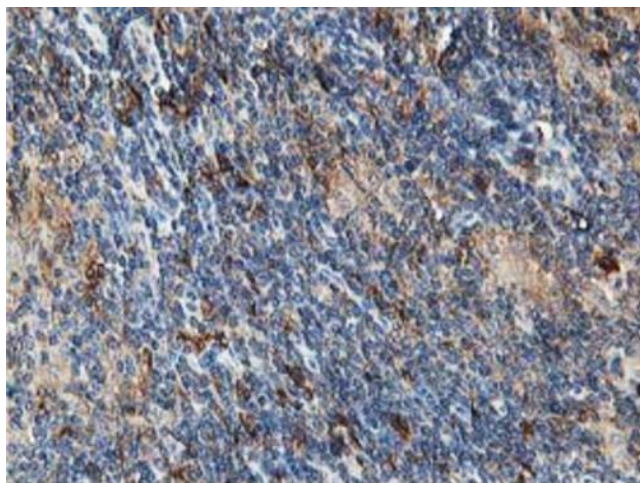
<b>Product Type:</b>	Primary Antibodies
<b>Clone Name:</b>	OTI2C12
<b>Applications:</b>	FC, IF, IHC, WB
<b>Recommended Dilution:</b>	WB 1:2000, IHC 1:150, IF 1:50~100, FLOW 1:100
<b>Reactivity:</b>	Human, Mouse, Rat
<b>Host:</b>	Mouse
<b>Isotype:</b>	IgG1
<b>Clonality:</b>	Monoclonal
<b>Immunogen:</b>	Full length human recombinant protein of human ATG3(NP_057393) produced in HEK293 cell.
<b>Formulation:</b>	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
<b>Concentration:</b>	0.39 mg/ml
<b>Purification:</b>	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store at -20°C as received.
<b>Stability:</b>	Stable for 12 months from date of receipt.
<b>Predicted Protein Size:</b>	35.7 kDa
<b>Gene Name:</b>	autophagy related 3
<b>Database Link:</b>	<a href="#">NP_071933</a> <a href="#">Entrez Gene 67841 Mouse</a> <a href="#">Entrez Gene 171415 Rat</a> <a href="#">Entrez Gene 64422 Human</a> <a href="#">Q9NT62</a>
<b>Background:</b>	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]
<b>Synonyms:</b>	APG3; APG3-LIKE; APG3L; PC3-96



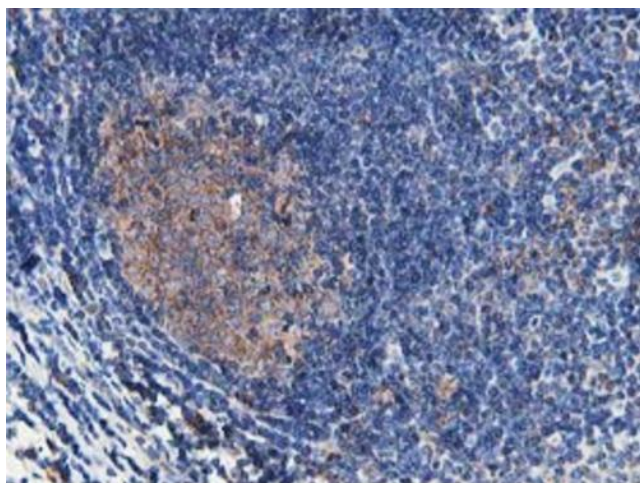
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Protein Pathways: Regulation of autophagy

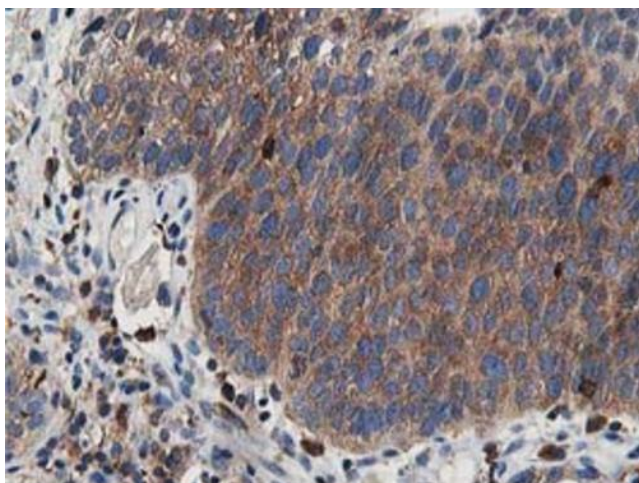
### Product images:



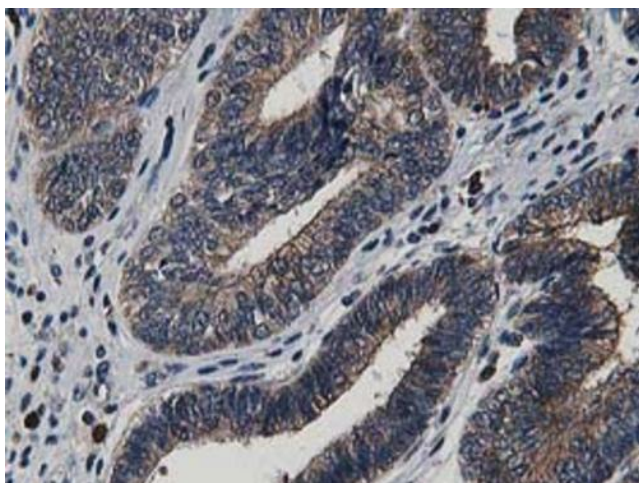
Immunohistochemical staining of paraffin-embedded Human lymphoma tissue using anti-ATG3 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



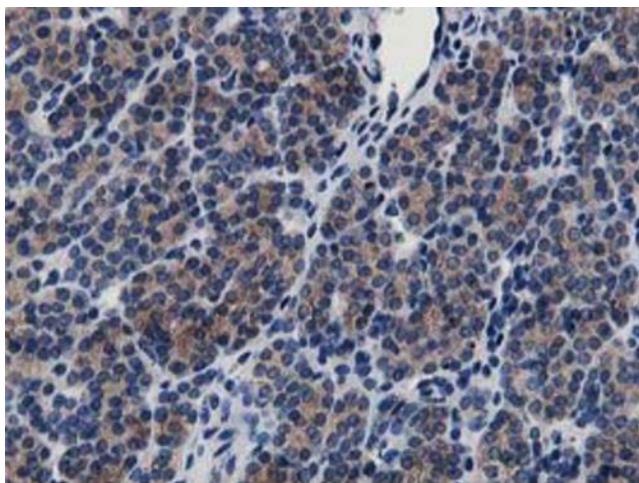
Immunohistochemical staining of paraffin-embedded Human lymph node tissue within the normal limits using anti-ATG3 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



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

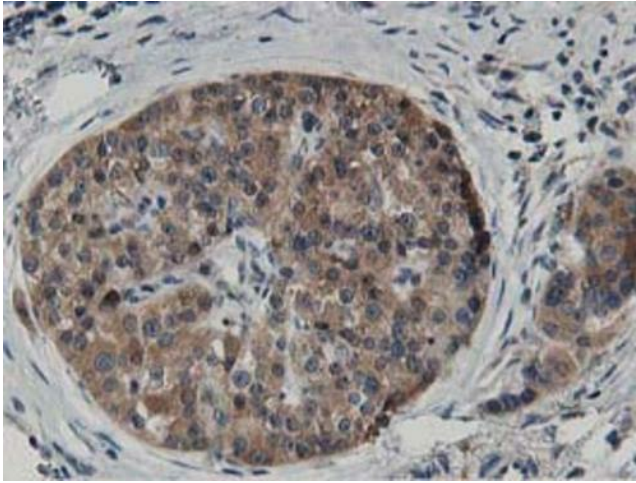


Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human endometrium tissue using anti-ATG3 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

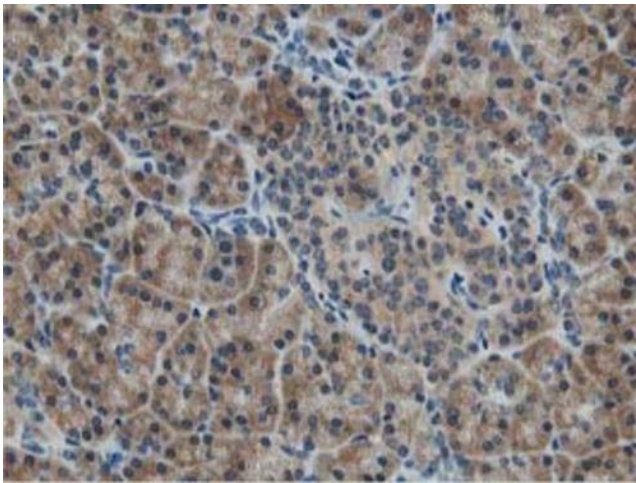


Immunohistochemical staining of paraffin-embedded Carcinoma of Human thyroid tissue using anti-ATG3 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

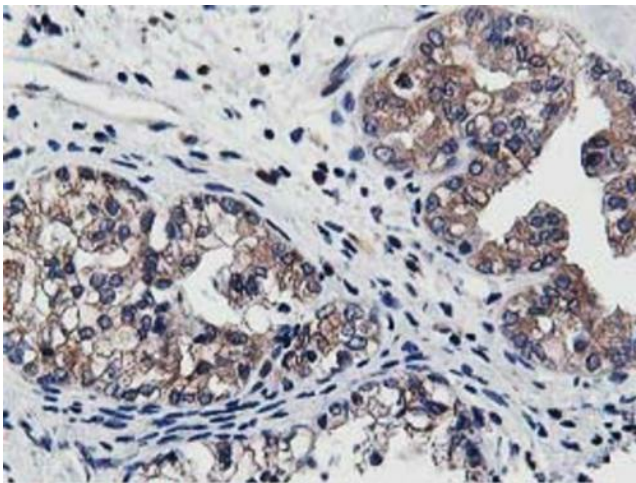




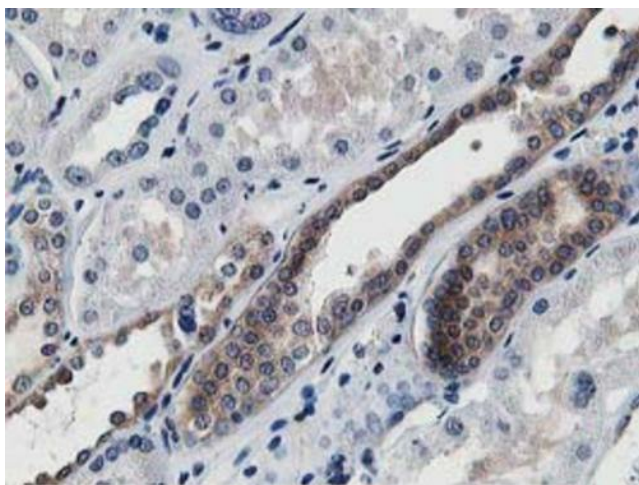
Immunohistochemical staining of paraffin-embedded Carcinoma of Human pancreas tissue using anti-ATG3 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



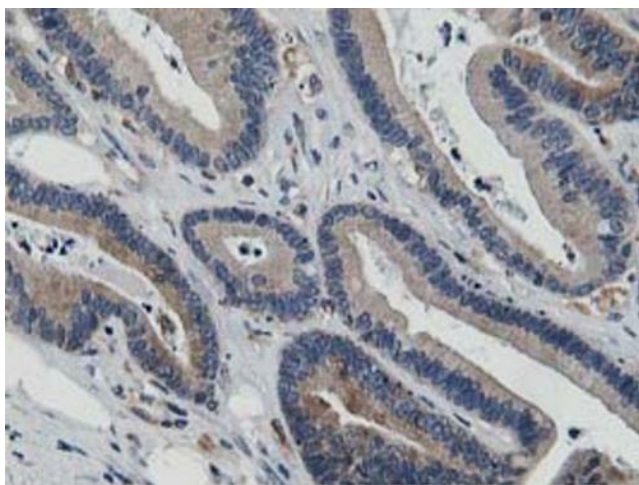
Immunohistochemical staining of paraffin-embedded Human pancreas tissue within the normal limits using anti-ATG3 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



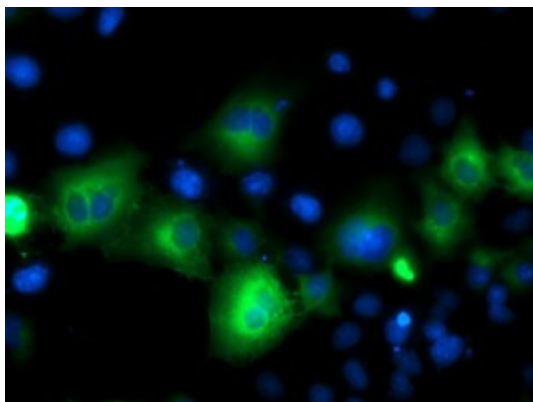
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human ovary tissue using anti-ATG3 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



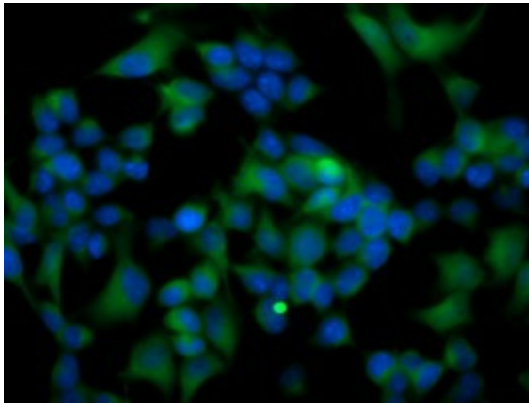
Immunohistochemical staining of paraffin-embedded Human Kidney tissue within the normal limits using anti-ATG3 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



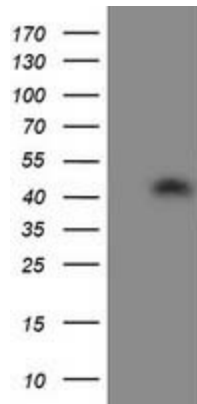
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human colon tissue using anti-ATG3 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



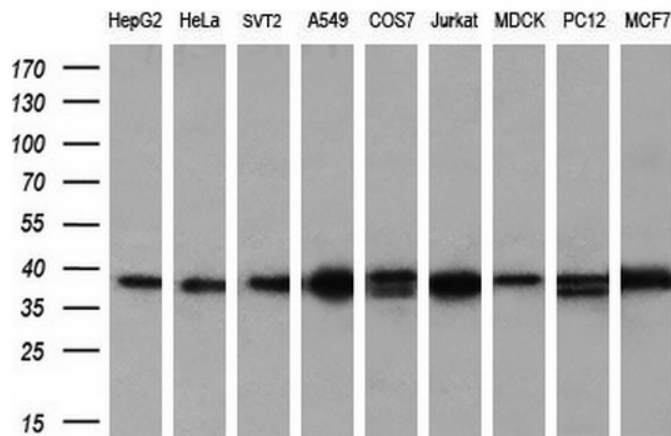
Anti-ATG3 mouse monoclonal antibody (TA503161) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY ATG3 ([RC203453]).



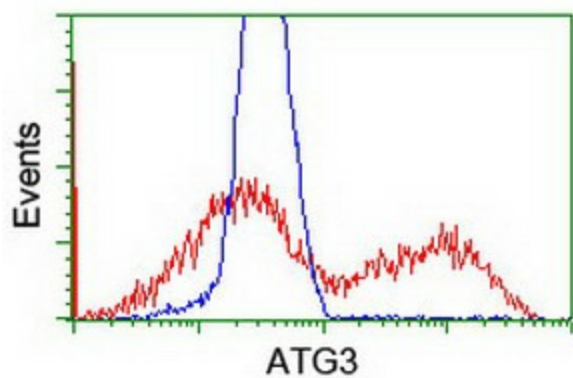
Immunofluorescent staining of HeLa cells using anti-ATG3 mouse monoclonal antibody (TA503161).



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY ATG3 (Cat# [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 (Cat# TA503161). Positive lysates [LY411559] (100ug) and [LC411559] (20ug) can be purchased separately from OriGene.



Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-ATG3 monoclonal antibody (HepG2: human; HeLa: human; SVT2: mouse; A549: human; COS7: monkey; Jurkat: human; MDCK: canine; PC12: rat; MCF7: human) (1:200).



HEK293T cells transfected with either [RC203453] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-ATG3 antibody (TA503161), and then analyzed by flow cytometry.