

## Product datasheet for **CF503346**

### Apg3 (ATG3) Mouse Monoclonal Antibody [Clone ID: OTI3H2]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI3H2
Applications:	FC, IF, IHC, WB
Recommended Dilution:	WB 1:500~2000, IHC 1:150, IF 1:100, FLOW 1:100
Reactivity:	Human, Dog, Rat, Monkey, Mouse
Host:	Mouse
Isotype:	IgG2a
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:	<a href="#">NP_071933</a> <a href="#">Entrez Gene 67841 Mouse</a> <a href="#">Entrez Gene 171415 Rat</a> <a href="#">Entrez Gene 478564 Dog</a> <a href="#">Entrez Gene 708305 Monkey</a> <a href="#">Entrez Gene 64422 Human</a> <a href="#">Q9NT62</a>



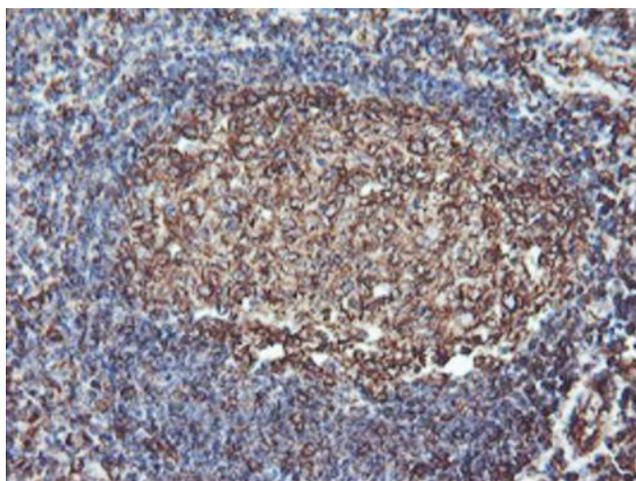
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**Background:** Autophagy is a process of bulk degradation of cytoplasmic components by the lysosome or vacuole. Human ATG3 displays the same enzymatic characteristics in vitro as yeast Apg3, a protein-conjugating enzyme essential for autophagy (Tanida et al., 2002 [PubMed 11825910]). [supplied by OMIM, Mar 2008]

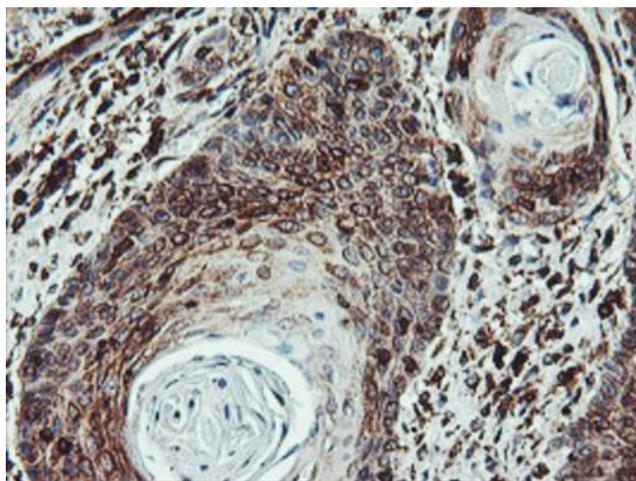
**Synonyms:** APG3; APG3-LIKE; APG3L; PC3-96

**Protein Pathways:** Regulation of autophagy

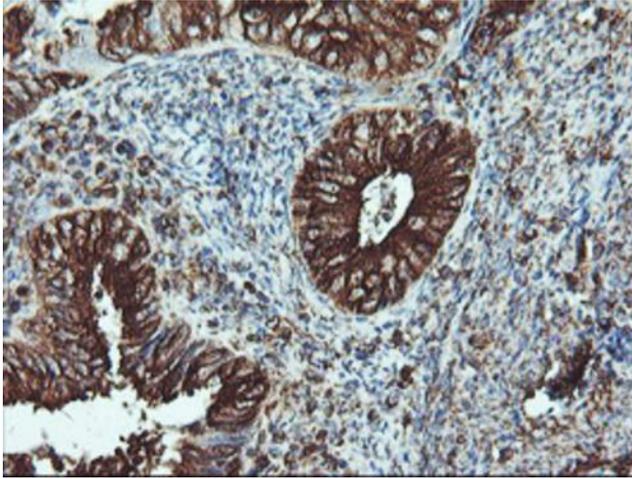
**Product images:**



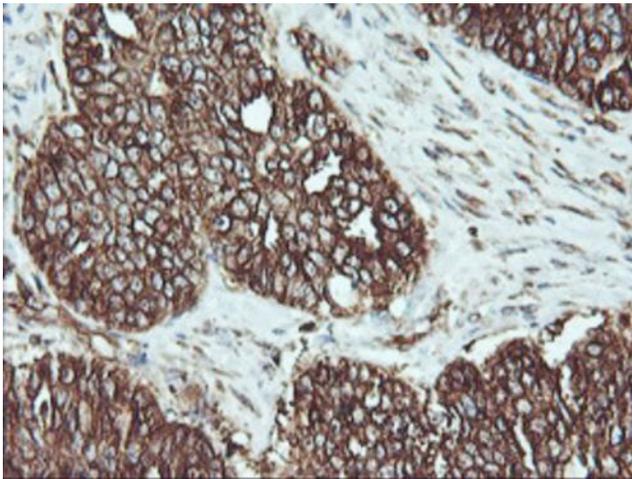
Immunohistochemical staining of paraffin-embedded Human tonsil within the normal limits using anti-ATG3 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



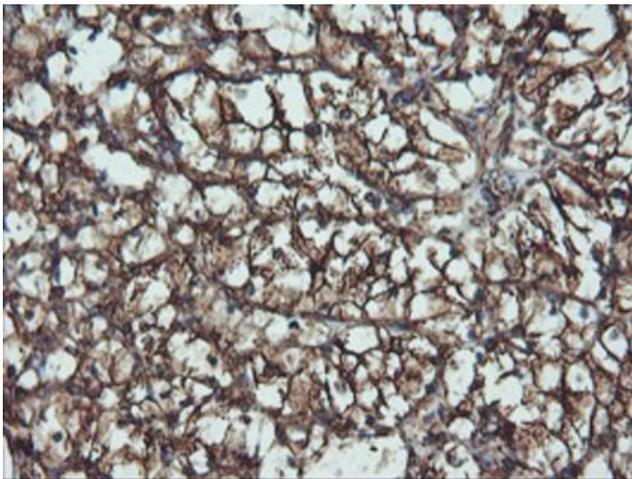
Immunohistochemical staining of paraffin-embedded Carcinoma of Human bladder tissue using anti-ATG3 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



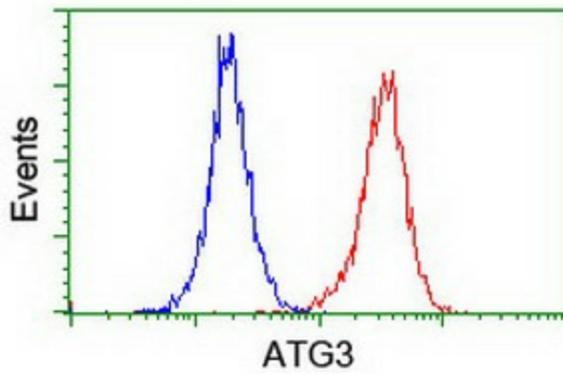
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human endometrium tissue using anti-ATG3 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



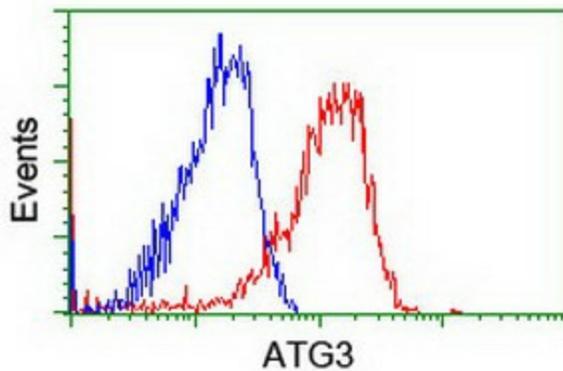
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human ovary tissue using anti-ATG3 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



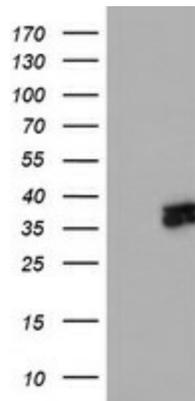
Immunohistochemical staining of paraffin-embedded Human Kidney tissue within the normal limits using anti-ATG3 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



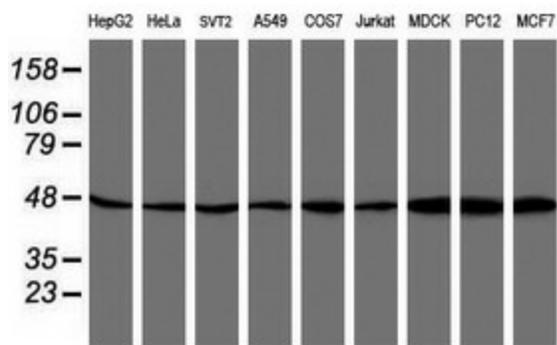
Flow cytometric Analysis of Jurkat cells, using anti-ATG3 antibody ([TA503346]), (Red), compared to a nonspecific negative control antibody, (Blue).



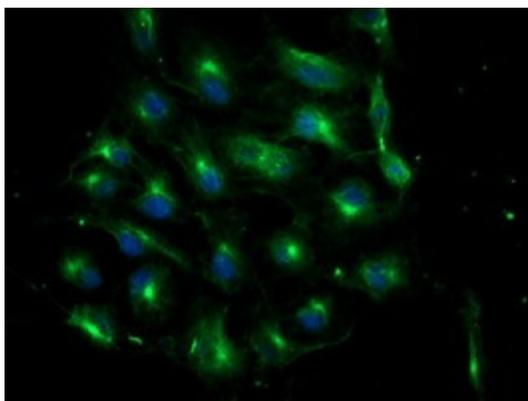
Flow cytometric Analysis of HeLa cells, using anti-ATG3 antibody ([TA503346]), (Red), compared to a nonspecific negative control antibody, (Blue).



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 ([TA503346]). 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).



Anti-ATG3 mouse monoclonal antibody ([TA503346]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY ATG3 ([RC203453]).