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Product datasheet for TA503299M

Apg3 (ATG3) Mouse Monoclonal Antibody [Clone ID: OTI3G3]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI3G3
Applications:	FC, IF, WB
Recommended Dilution:	WB 1:500~2000, IF 1:100, FLOW 1:100
Reactivity:	Human, Dog, Rat, Monkey, Mouse
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human ATG3(NP_071933) produced in HEK293T cell.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	1 mg/ml
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 478564 DogEntrez Gene 708305 MonkeyEntrez Gene 64422 Human Q9NT62
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]

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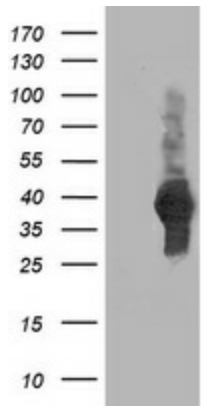
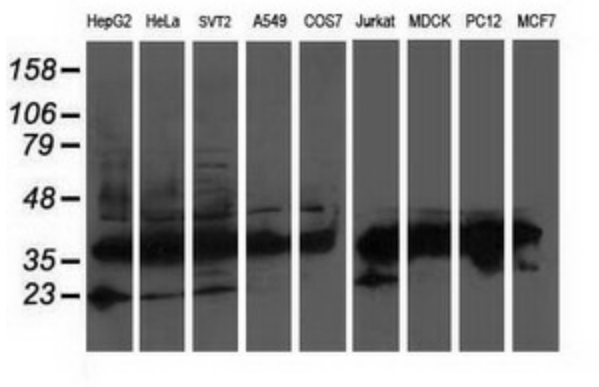
Synonyms: APG3; APG3-LIKE; APG3L; PC3-96

Protein Pathways: Regulation of autophagy

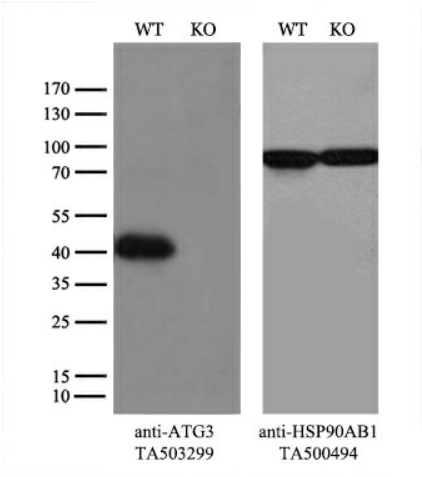
Product images:



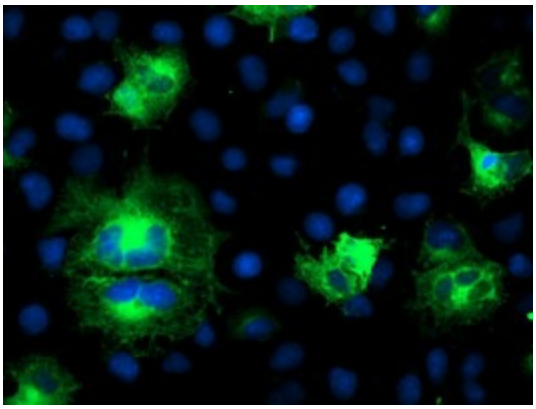
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY ATG3 ([RC203453], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ATG3. Positive lysates [LY411559] (100ug) and [LC411559]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



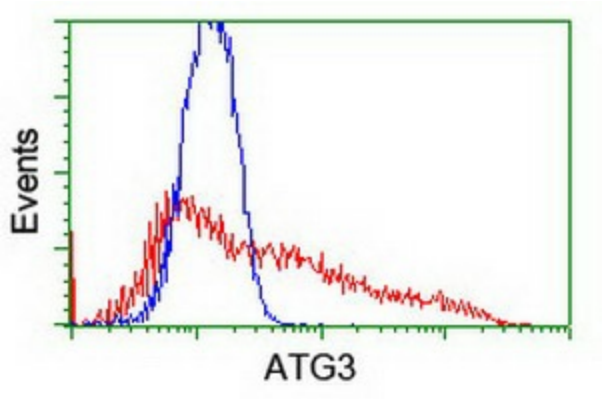
Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-ATG3 monoclonal antibody (HepG2: human; HeLa: human; SVT2: mouse; A549: human; COS7: monkey; Jurkat: human; MDCK: canine; PC12: rat; MCF7: human).



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 [TA503299], (1:500). Then the blotted membrane was stripped and reprobed with anti-HSP90AB1 antibody ([TA500494]) as a loading control.



Anti-ATG3 mouse monoclonal antibody ([TA503299]) 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 ([TA503299]), and then analyzed by flow cytometry.