

Anti-Apg3 Antibody (10195)

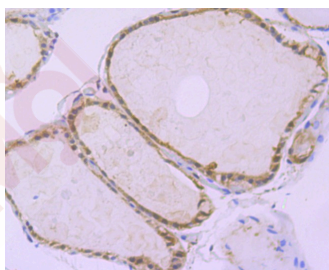
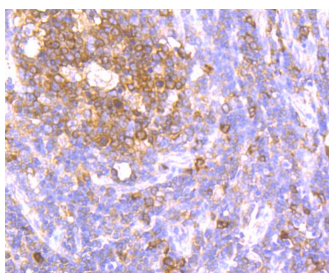
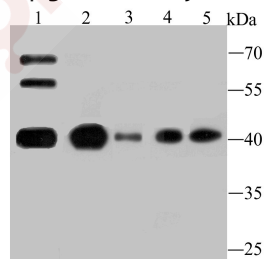
Product Details

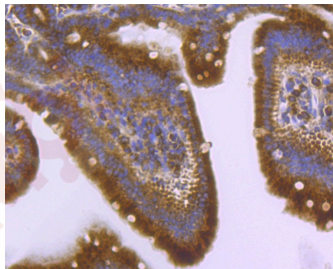
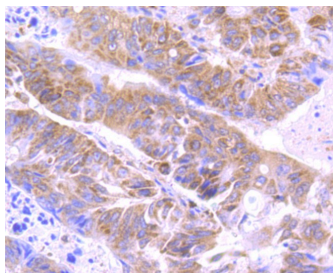
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 40 kDa.
Clone:	10195
Purification:	ProA affinity purified

Applications

1. Western blot analysis of Apg3 on different lysates using anti-Apg3 antibody at 1/500 dilution. Positive control: Lane 1: Mouse testis tissue, Lane 2: K562, Lane 3: HL-60, Lane 4: HeLa, Lane 5: Jurkat.
2. Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-Apg3 antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded human thyroid gland tissue using anti-Apg3 antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded human colon cancer tissue using anti-Apg3 antibody. Counter stained with hematoxylin.
5. Immunohistochemical analysis of paraffin-embedded mouse small intestine tissue using anti-Apg3 antibody. Counter stained with hematoxylin.

Verified Activity:





Application: IHC,WB
Recommended WB: 1:500-2000; IHC: 1:50-200

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
OTTHUMP00000214547;Protein PC3-96;ATG3 autophagy related 3 homolog (S. cerevisiae); FLJ22125;Apg3p;2610016C12Rik;OTTHUMP00000214548;Autophagy related protein 3;APG3;
Synonyms: ATG3 autophagy related 3 homolog;APG3L;MGC15201;APG3 autophagy 3 like;Ubiquitin-like-conjugating enzyme ATG3;Autophagy Apg3p/Aut1p like;APG3-like;Autophagy 3, S. cerevisiae, homolog of;PC3 96;Apg 3;APG3 like;autophagy related 3;Autophagy-related protein 3; DKFZp564M1178;ATG3;ATG3_HUMAN;hApg3;APG3, S. cerevisiae, homolog of;ATG 3

Research Background

Atg3 (autophagy-related protein 3), also known as APG3-like, hAPG3 or PC3-96, is an E2-like enzyme that localizes to the cytoplasm and is expressed in a variety of tissues with predominant levels found in kidney, placenta, liver, heart and skeletal muscle. Atg3 catalyzes the formation of the Atg8-phosphatidylethanolamine (Atg8-PE) conjugate, a reaction that is essential for autophagy (a cellular process that allows for the degradation of organelles and bulk cellular proteins). The process of forming the Atg8-PE conjugate begins with the removal of the C-terminal arginine residue of Atg8 by Atg4, a cysteine protease. The now exposed, glycine residue is then activated by Atg7 and is then transferred to Atg3 for the final conjugation to PE. This last step can be accelerated by the presence of the Atg12-Atg5 conjugate which functions similarly to an E3 enzyme.

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