

**ATG9A Rabbit mAb**  
Catalog # AP77515**Specification****ATG9A Rabbit mAb - Product Information**

Application	WB, IHC-P, IP, ICC
Primary Accession	<a href="#">Q7Z3C6</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	94447

**ATG9A Rabbit mAb - Additional Information**

Gene ID 79065

**Other Names**  
ATG9A**Format**  
Liquid**ATG9A Rabbit mAb - Protein Information****Name** ATG9A {ECO:0000303|PubMed:20124090, ECO:0000312|HGNC:HGNC:22408}**Function**

Phospholipid scramblase involved in autophagy by mediating autophagosomal membrane expansion (PubMed: [22456507](http://www.uniprot.org/citations/22456507)), PubMed: [27510922](http://www.uniprot.org/citations/27510922), PubMed: [29437695](http://www.uniprot.org/citations/29437695), PubMed: [32513819](http://www.uniprot.org/citations/32513819), PubMed: [32610138](http://www.uniprot.org/citations/32610138), PubMed: [33106659](http://www.uniprot.org/citations/33106659), PubMed: [33468622](http://www.uniprot.org/citations/33468622), PubMed: [33850023](http://www.uniprot.org/citations/33850023)). Cycles between the preautophagosomal structure/phagophore assembly site (PAS) and the cytoplasmic vesicle pool and supplies membrane for the growing autophagosome (PubMed: [16940348](http://www.uniprot.org/citations/16940348), PubMed: [22456507](http://www.uniprot.org/citations/22456507), PubMed: [33106659](http://www.uniprot.org/citations/33106659)). Lipid scramblase activity plays a key role in preautophagosomal structure/phagophore assembly by distributing the phospholipids that arrive through ATG2 (ATG2A or ATG2B) from the cytoplasmic to the luminal leaflet of the bilayer, thereby driving autophagosomal membrane expansion (PubMed: [33106659](http://www.uniprot.org/citations/33106659)). Also required to supply phosphatidylinositol 4-phosphate to the autophagosome initiation site by recruiting the phosphatidylinositol 4-kinase beta (PI4KB) in a process dependent on ARFIP2, but not ARFIP1

(PubMed:<a href="http://www.uniprot.org/citations/30917996" target="\_blank">30917996</a>). In addition to autophagy, also plays a role in necrotic cell death (By similarity).

#### **Cellular Location**

Preautophagosomal structure membrane; Multi-pass membrane protein. Cytoplasmic vesicle, autophagosome membrane; Multi-pass membrane protein. Golgi apparatus, trans-Golgi network membrane; Multi-pass membrane protein. Late endosome membrane; Multi-pass membrane protein. Recycling endosome membrane; Multi-pass membrane protein. Endoplasmic reticulum membrane; Multi-pass membrane protein. Mitochondrion membrane; Multi-pass membrane protein. Note=Mainly localizes to the trans-Golgi network (TGN) and the endosomal system; cycles between them though vesicle trafficking (PubMed:27316455, PubMed:27663665). Export from the TGN to promote formation of autophagosomes is mediated by the AP-4 complex (PubMed:29180427, PubMed:30262884). Under amino acid starvation or rapamycin treatment, redistributes to preautophagosomal structure/phagophore assembly site (PAS) (PubMed:16940348). The starvation-induced redistribution depends on ULK1, ATG13, as well as SH3GLB1 (PubMed:16940348). Upon autophagy induction, a small portion transiently localizes to the autophagic membranes (PubMed:22456507) Recruited to damaged mitochondria during mitophagy in a RIMOC1- dependent manner (PubMed:34432599).

#### **ATG9A Rabbit mAb - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### **ATG9A Rabbit mAb - Images**