

Product Name: ATG9A (7Z14) Rabbit Monoclonal Antibody
Catalog #: AMRe07301

Summary

Production Name	ATG9A (7Z14) Rabbit Monoclonal Antibody
Description	Rabbit Monoclonal Antibody
Host	Rabbit
Application	WB,ELISA
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.
Purification	Affinity purification

Immunogen

Gene Name	ATG9A {ECO:0000303 PubMed:20124090, ECO:0000312 HGNC:HGNC:22408}
Alternative Names	ATG9A; APG9-like 1; Autophagy 9-like 1 protein; Autophagy-related protein 9A; MGD3208; MATG9; APG9 autophagy 9-like 1; APG9L1; Autophagy related 9A;
Gene ID	79065.0
SwissProt ID	Q7Z3C6.

Application

Dilution Ratio	WB 1:1000-1:2000
Molecular Weight	94kDa

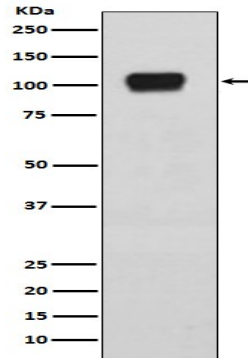
Background

Involved in autophagy and cytoplasm to vacuole transport (Cvt) vesicle formation. Plays a key role in the organization of the preautophagosomal structure/phagophore assembly site (PAS), the nucleating site for formation of the sequestering vesicle. Phospholipid scramblase involved in autophagy by mediating autophagosomal membrane expansion (PubMed: 22456507, PubMed: 27510922, PubMed: 29437695, PubMed: 32513819, PubMed: 33468622, PubMed: 33850023, PubMed: 32610138, PubMed: 33106659). Cycles between the preautophagosomal structure/phagophore assembly site (PAS) and the cytoplasmic vesicle pool and supplies membrane for the growing autophagosome (PubMed: 16940348, PubMed: 22456507, PubMed: 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). 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: 30917996). In addition to autophagy, also plays a role in necrotic cell death (By similarity).

Research Area

Image Data

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Western blot analysis of ATG9A expression in HepG2 cell lysate.

Note

For research use only.