ATG13 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ATG13, Polyclonal Antibody
Full Product Name	ATG13, Phosphorylated (S355) (ATG13, KIAA0652, Autophagy-related protein 13) (MaxLight 750)
Product Gene Name	anti-ATG13 antibody
Product Synonym Names	ATG13; KIAA0652; Autophagy-related protein 13
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	60,155 Da
OMIM	615088
3D Structure	ModBase 3D Structure for O75143
Immunogen	ATG13 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding S355 of human ATG13.
Conjugate	MaxLight750
Antigen Modification	Phosphorylated
Note	Preservative Free
Product Categories/Family for anti-ATG13 antibody	Antibodies; Autophagy
Applications Tested/Suitable for anti-ATG13 antibody	FLISA, Dot Blot (DB)
Application Notes for anti-ATG13 antibody	FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-ATG13 antibody	Autophagy factor required for autophagosome formation. Target of the TOR kinase signaling pathway that regulates autophagy through the control of the phosphorylation status of ATG13 and ULK1, and the regulation of the ATG13-ULK1-RB1CC1 complex.
Product References and Citations for anti-ATG13 antibody	Ferreira, R.C., et al. Nat. Genet. 42(9):777-780(2010). Hosokawa, N., et al. Autophagy 5(7):973-979(2009). Mercer, C.A., et al. Autophagy 5(5):649-662(2009). Ganley, I.G., et al. J. Biol. Chem. 284(18):12297-12305(2009). Chan, E.Y., et al. Mol. Cell. Biol. 29(1):157-171(2009).
Other Notes	Small volumes of anti-ATG13 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for ATG13 purchase	MBS6275994 is an antibody targeting ATG13. Also known as ATG13, Phosphorylated (S355) (ATG13, KIAA0652, Autophagy-related protein 13) (MaxLight 750). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ATG13. It may not necessarily be applicable to this product.

NCBI GI #	218082953
NCBI GeneID	9776
NCBI Accession #	NP_001136145.1
NCBI Related Accession #	NP_055556.2
UniProt Primary Accession #	O75143
UniProt Secondary Accession #	Q53EN6; Q9BRL3; Q9H8B0; B4DFI4; D3DQQ1; D3DQQ2; E9PQZ8
UniProt Related Accession #	O75143
GenBank Nucleotide #	NM_001142673.2
NCBI Official Full Name	autophagy-related protein 13 isoform 1
NCBI Official Synonym Full Names	autophagy related 13
NCBI Official Symbol	ATG13
NCBI Official Synonym Symbols	KIAA0652; PARATARG8
UniProt Protein Name	Autophagy-related protein 13
Protein Family	Autophagy protein
UniProt Gene Name	ATG13
UniProt Synonym Gene Names	KIAA0652
UniProt Entry Name	ATG13_HUMAN
NCBI Protein Information	autophagy-related protein 13
UniProt Comments for ATG13	ATG13: an autophagy factor required for autophagosome formation. Target of the TOR kinase signaling pathway that regulates autophagy through the control of the phosphorylation status of ATG13 and ULK1, and the regulation of the ATG13-ULK1-RB1CC1 complex. Under starvation conditions, is localized to puncate structures primarily representing the isolation membrane; the isolation membrane sequesters a portion of the cytoplasm resulting in autophagosome formation. Phosphorylated by ULK1 and ULK2. Phosphorylation status depends on nutrient-rich conditions; dephosphorylated during starvation or following treatment with rapamycin. Part of a complex consisting of ATG13, ULK1 and RB1CC1. Interacts with ATG101. Interacts with ULK1 and -2 via C-terminus. Three isoforms of the human protein are produced by alternative splicing. Protein type: Vesicle; Autophagy Chromosomal Location of Human Ortholog: 11p11.2 Cellular Component: mitochondrion; cytosol Molecular Function: protein binding; protein kinase binding Biological Process: autophagic vacuole formation
Research Articles on ATG13	**1.** Specific affinity of the LC3 isoforms to the Atg13 LC3-interacting region is required for proper autophagosome formation.

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