

Rabbit Atg13 Polyclonal Antibody | anti-Atg13 antibody

Atg13 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329212	Rabbit	Human, Mouse, Rat	ELISA, Western Blot

PRODUCT SYNONYMS

Atg13; Polyclonal Antibody; Atg13 Antibody; ATG13; ATG13 autophagy related 13 homolog (S. cerevisiae); ATG13_HUMAN; Autophagy related 13; Autophagy related protein 13; Autophagy-related protein 13; FLJ20698; KIAA0652; OTTHUMP00000233321; OTTHUMP00000233322; OTTHUMP00000233323; OTTHUMP00000233324; OTTHUMP00000233325; OTTHUMP00000233326; anti-Atg13 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Atg13 Antibody detects endogenous levels of total Atg13.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-Atg13 antibody	ELISA (Peptide ELISA), WB (Western Blot)
Immunogen	A synthesized peptide derived from human Atg13.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Phosphorylated by ULK1, ULK2 and mTOR. Phosphorylation status depends on nutrient-rich conditions; dephosphorylated during starvation or following treatment with rapamycin. ULK1-mediated phosphorylation of ATG13 at Ser-355 is required for efficient clearance of depolarized mitochondria.
Subunit Structure	Part of a complex consisting of ATG13, ULK1 and RB1CC1. Interacts with ATG101. Interacts with ULK1 (via C-terminus). Interacts with ULK2 (via C-terminus). Interacts (via the LIR motif) with GABARAP, GABARAPL, GABARAPL2. Interacts (via the LIR motif) with MAP1LC3A, MAP1LC3B and MAP1LC3C. Interacts with TAB2 and TAB3. Interacts with C9orf72.
Similarity	The LIR motif (LC3-interacting region) is required for the interaction with the ATG8 family proteins GABARAP, GABARAPL, GABARAPL2, and MAP1LC3A. Belongs to the ATG13 family. Metazoan subfamily.
Subcellular Location	Cytoplasm>Cytosol. Preautophagosomal structure. Note: Under starvation conditions, is localized to punctate structures primarily representing the isolation membrane; the isolation membrane sequesters a portion of the cytoplasm resulting in autophagosome formation.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)
Western blot analysis of extracts from Serum-starved EC304 cells, using Atg13 Antibody. The lane on the left was treated with blocking peptide.



WB (Western Blot)
Western blot analysis of extracts from Rat testis, using Atg13 Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-Atg13 antibody	Autophagy factor required for autophagosome formation and mitophagy. 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. Through its regulation of ULK1 activity, plays a role in the regulation of the kinase activity of mTORC1 and cell proliferation.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	20140441
NCBI GeneID	9776
UniProt Accession #	O75143; Q53EN6; Q9BRL3; Q9H8B0; B4DFI4; D3DQQ1; D3DQQ2; E9PQZ8
Molecular Weight	517
NCBI Official Full Name	Autophagy-related protein 13
NCBI Official Synonym Full Names	autophagy related 13
NCBI Official Symbol	ATG13
NCBI Official Synonym Symbols	KIAA0652; PARATARG8
NCBI Protein Information	autophagy-related protein 13; ATG13 autophagy related 13 homolog
UniProt Protein Name	Autophagy-related protein 13
UniProt Gene Name	ATG13
UniProt Synonym Gene Names	KIAA0652
UniProt Entry Name	ATG13_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.