

Product datasheet for **TA319366**

KIAA0652 (ATG13) Rabbit Polyclonal Antibody

Product data:

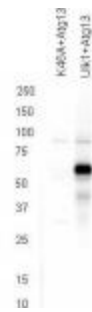
Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	ELISA: 1:25,000-1:175,000, WB: 1:1000
Reactivity:	Human
Modifications:	Phospho-specific
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Anti-ATG13 pS318 antibody was prepared by repeated immunizations with a synthetic peptide corresponding to the region near S318 of ATG13.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	autophagy related 13
Database Link:	NP_055556 Entrez Gene 9776 Human O75143
Synonyms:	KIAA0652; PARATARG8



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Note: ATG13 is a target of the TOR kinase signaling pathway that regulates autophagy through the control of the phosphorylation status of ATG13 and ULK1 through their stable complex, and the regulation of ATG13-ULK1-RB1CC1. ATG13 also forms a stable complex with FIP200. Ulk1 phosphorylates ATG13 on S318 and promotes its release to damaged mitochondria. Autophagy is a normal process in eukaryotes required for turnover of cellular components during starvation and stress. It plays an essential role in cellular differentiation, cell death and aging. Defects in this evolutionarily conserved process may contribute to certain human diseases such as cancer, neurodegenerative diseases, muscular disorders and pathogen infections. ATG13 is one of several ATG genes required for autophagosome formation in mammalian cells. mTOR interacts with this complex in a nutrient dependent manner and phosphorylates Atg13 and ULK1.

Product images:



WB using Anti-ATG13 pS318 antibody shows detection of phosphorylated ATG13 in 293T cells engineered to coexpress Ulk1 and Atg13 (Ulk1 + Atg13). In the left lane was loaded kinase-dead hypophosphorylated Ulk1-K46A mutant + ATG13. The right lane contains the 293T Ulk1 + ATG13 lysate and shows detection at approximately 57 kDa. The primary antibody was used at 1 µg/mL. Goat Anti-Rabbit HRP was used at 1:5000.