

Product datasheet for **TA323903**

KIAA0652 (ATG13) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 1:500-2000
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Fusion protein corresponding to C terminal 200 amino acids of human Autophagy-related protein 13
Formulation:	PBS pH7.3, 0.05% NaN ₃ , 50% glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	57 kDa
Gene Name:	autophagy related 13
Database Link:	NP_001136145 Entrez Gene 51897 MouseEntrez Gene 362164 RatEntrez Gene 9776 Human O75143



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Background:

The autophagy-related protein 13 (Atg13) plays an important role in the formation of autophagosomes. Autophagosomes are formed in response to nutrient deprivation and function as the transport vesicles for organelles, proteins, and protein complexes targeted for lysosomes that digest these cargos to produce energy and nutrients. Atg13 is activated by the mTOR pathway and forms a complex with the FIP200 protein. This complex is involved in enhancing the activity of the ULK1 kinase which is required for the formation of autophagosomes. Atg13/FIP200 facilitates the localization of ULK1 to pre-autophagosomes, and subsequently stabilizes ULK1. Autophagy is an important process in development, growth, and cell differentiation, and disruption of this process may contribute to cancer, aging, and neurodegenerative diseases.

Synonyms:

KIAA0652; PARATARG8

Product images:

Predicted band size: 57 kDa. Positive control: Human brain tissue lysate. Recommended dilution: 1/500-2000. (Gel: 10%SDS-PAGE Lysate: 40 ug Primary antibody: 1/500 dilution Secondary antibody: Goat anti Rabbit IgG - H&L (HRP) at 1/10000 dilution Exposure time: 1 minute)