

## Product datasheet for **TA319788**

### **KIAA0652 (ATG13) Rabbit Polyclonal Antibody**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Applications:</b>	IF, IHC, WB
<b>Recommended Dilution:</b>	WB: 1 ug/mL, ICC: 5 ug/mL, IF: 20 ug/mL
<b>Reactivity:</b>	Human, Mouse, Rat
<b>Host:</b>	Rabbit
<b>Isotype:</b>	IgG
<b>Clonality:</b>	Polyclonal
<b>Immunogen:</b>	ATG13 antibody was raised against a 15 amino acid synthetic peptide near the carboxy terminus of human ATG13.
<b>Formulation:</b>	ATG13 Antibody is supplied in PBS containing 0.02% sodium azide.
<b>Concentration:</b>	1ug/ul
<b>Purification:</b>	ATG13 Antibody is affinity chromatography purified via peptide column.
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store at -20°C as received.
<b>Stability:</b>	Stable for 12 months from date of receipt.
<b>Gene Name:</b>	autophagy related 13
<b>Database Link:</b>	<a href="#">NP_001136145</a> <a href="#">Entrez Gene 51897 Mouse</a> <a href="#">Entrez Gene 362164 Rat</a> <a href="#">Entrez Gene 9776 Human</a> <a href="#">O75143</a>



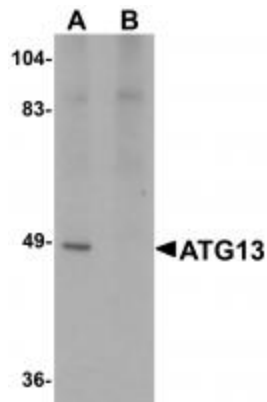
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**Background:**

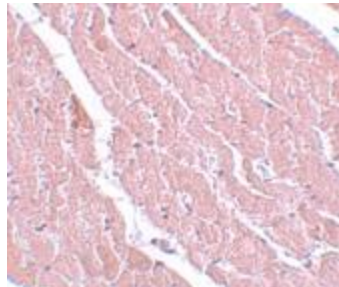
ATG13 Antibody: Autophagy, the process of bulk degradation of cellular proteins through an autophagosomal-lysosomal pathway is important for normal growth control and may be defective in tumor cells. It is involved in the preservation of cellular nutrients under starvation conditions as well as the normal turnover of cytosolic components. This process is negatively regulated by TOR (Target of rapamycin) through phosphorylation of autophagy protein ATG1. ATG13 forms a complex with ULK1 and ULK2, the mammalian homologs of ATG1, and with FIP200. This complex is a target of TOR phosphorylation under normal conditions; inhibition of TOR by rapamycin or leucine deprivation leads to dephosphorylation of ATG13, ULK1 and ULK2, which then leads to autophagy. Knockdown of ATG13 inhibits autophagosome formation.

**Synonyms:**

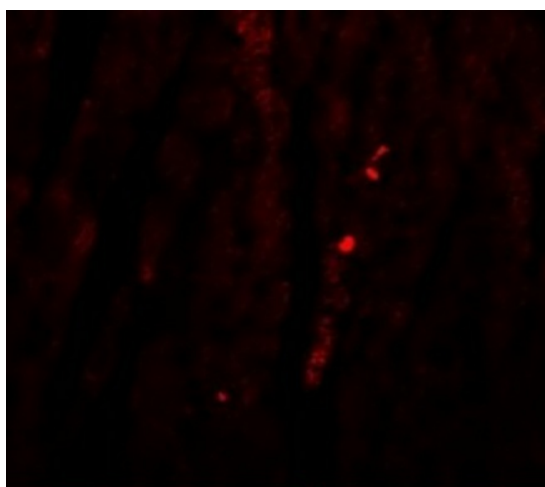
KIAA0652; PARATARG8

**Product images:**

Western blot analysis of ATG13 in rat heart tissue lysate with ATG13 antibody at 1 ug/mL in (A) the absence and (B) the presence of blocking peptide.



Immunohistochemistry of ATG13 in mouse heart with ATG13 antibody at 5 ug/mL.



Immunofluorescence of ATG13 in Mouse Heart tissue with ATG13 antibody at 20 ug/mL.