



Rabbit Anti-ATG13 antibody

SL3864R

Product Name:	ATG13
Chinese Name:	自噬相关蛋白13抗体
Alias:	ATG13; ATG13 autophagy related 13 homolog; ATG13_HUMAN; Autophagy related protein 13; Autophagy-related protein 13; FLJ20698; KIAA0652.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Cow,Horse,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	57kDa
Cellular localization:	cytoplasmic Mitochondrion
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human ATG13:51-150/517
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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. Function:

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.

Subunit:

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).

Subcellular Location:

Cytoplasm, cytosol.Preautophagosomal structure.

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.

Similarity:

Belongs to the ATG13 metazoan family.

SWISS:

O75143

Gene ID:

9776

Database links:

[Entrez Gene: 507340](#) Cow

[Entrez Gene: 9776](#) Human

[Entrez Gene: 51897](#) Mouse

[Entrez Gene: 362164](#) Rat

[Entrez Gene: 393405](#) Zebrafish

[SwissProt: Q08DY8](#) Cow

[SwissProt: O75143](#) Human

[SwissProt: Q91YI1](#) Mouse

[SwissProt: Q7SYE0](#) Zebrafish

[Unigene: 127403](#) Human

[Unigene: 28492](#) Mouse

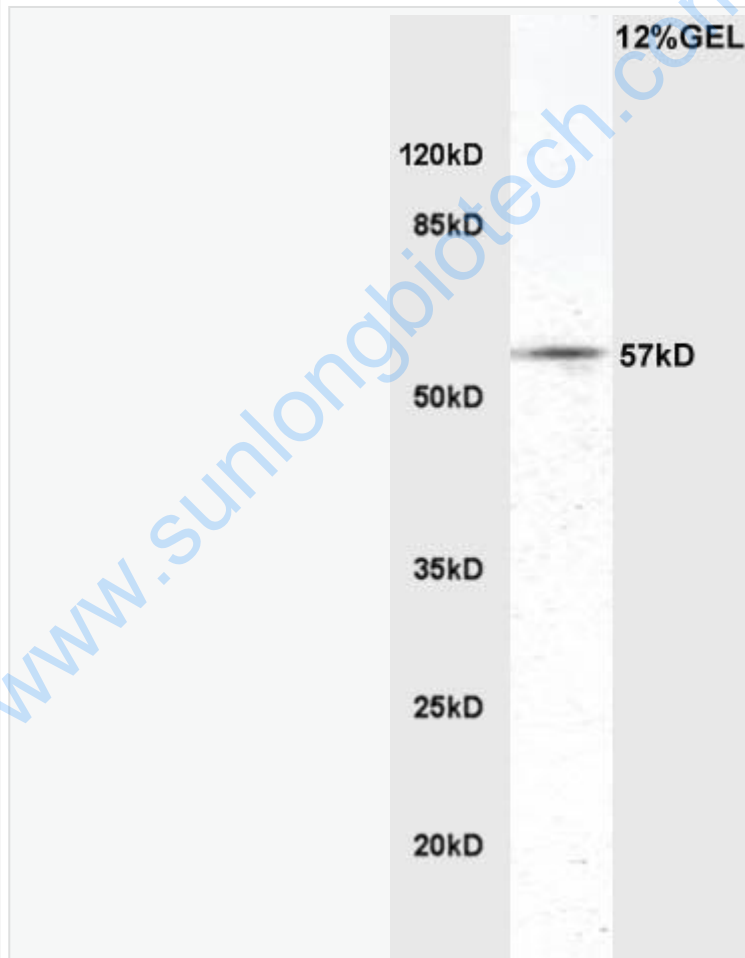
[Unigene: 98797](#) Rat

[Unigene: 82470](#) Zebrafish

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Sample: Brain (Rat) Lysate at 40 ug

Primary: Anti-ATG13 (SL3864R) at 1/300 dilution

Secondary: HRP conjugated Goat-Anti-rabbit IgG (SL3864R) at 1/5000 dilution

	<p>Predicted band size: 57 kD</p>
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	<p>Observed band size: 57 kD</p>
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