SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-ATG13 antibody

Catalog Number: SL22897R

FOR RESEARCH USE ONLY

[DATASHEET]

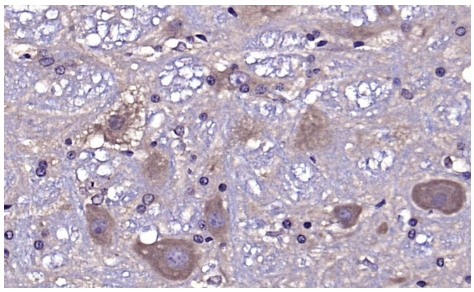
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	ATG13
Immunogen:	KLH conjugated synthetic peptide derived from human ATG13: 41-140/517
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:400-800 IHC-F=1:400-800 IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse,Rat(predicted:Human,Chicken,Dog,Pig,Rabbit,Sheep)
Predicted MW.:	57kDa
Subcellular Location:	cytoplasmic Mitochondrion
Background:	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).

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

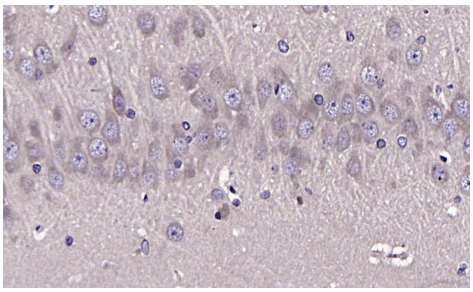
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	Subcellular Location: Cytoplasm, cytosol.Preautophagosomal structure. **Post-translational modifications:** Phosphorylated by ULK1, ULK2 and mTOR. Phosphorylation status depends on nutrient-rich conditions; dephosphorylated during starvation or following 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. **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

[VALIDATION IMAGES]



Paraformaldehyde-fixed, paraffin embedded (rat cerebellum); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (ATG13) Polyclonal Antibody, Unconjugated (SL22897R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (ATG13) Polyclonal Antibody, Unconjugated (SL22897R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

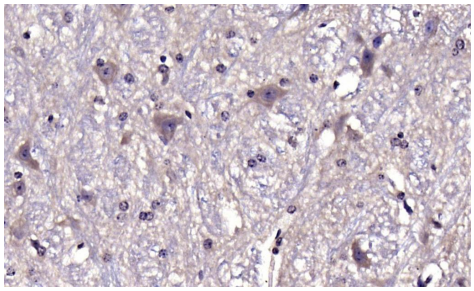
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Paraformaldehyde-fixed, paraffin embedded (mouse cerebellum); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (ATG13) Polyclonal Antibody, Unconjugated (SL22897R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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