

ATG13 Antibody
Catalog # ASM10530**Specification**

ATG13 Antibody - Product Information

Application	WB, ICC
Primary Accession	O75143
Other Accession	NP_001136145.1
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	FITC

Description

Rabbit Anti-Human ATG13 Polyclonal

Target/Specificity

Detects ~56-63kDa.

Other Names

ATG13_Human Antibody, Autophagy related protein 13 Antibody, KIAA0652 Antibody

Immunogen

Synthetic peptide from the mid-protein range of human ATG13

Purification

Peptide Affinity Purified

Storage **-20°C****Storage Buffer**

PBS, 50% glycerol, 0.09% sodium azide

Shipping Temperature **Blue Ice or 4°C****Certificate of Analysis**

A 1:1000 dilution of SPC-657 was sufficient for detection of ATG13 on HEK293 lysates using Goat anti-rabbit IgG:HRP as the secondary antibody.

Cellular Localization

Cytoplasm | Cytosol | Preautophagosomal structure

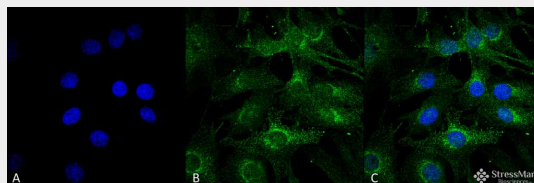
ATG13 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

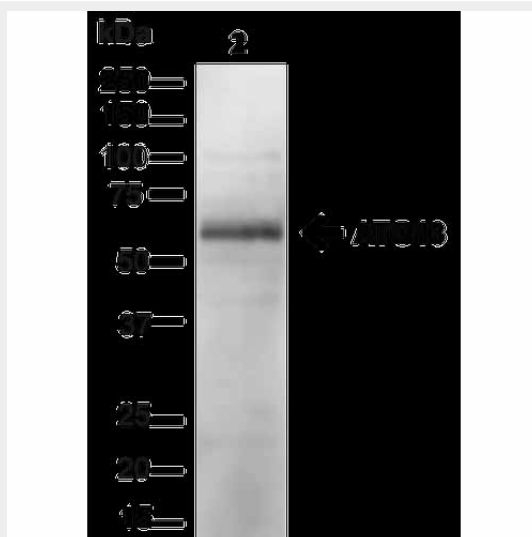
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)

- [Flow Cytometry](#)
- [Cell Culture](#)

ATG13 Antibody - Images



Immunocytochemistry/Immunofluorescence analysis using Rabbit Anti-ATG13 Polyclonal Antibody (ASM10530). Tissue: Myoblast cell line (C2C12). Species: Mouse. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Rabbit Anti-ATG13 Polyclonal Antibody (ASM10530) at 1:100 for 60 min at RT. Secondary Antibody: Goat Anti-Rabbit ATTO 488 at 1:100 for 60 min at RT. Counterstain: DAPI (blue) nuclear stain at 1:5000 for 5 min RT. Localization: Cytoplasm, Cytosol. Magnification: 60X. (A) DAPI (blue) nuclear stain (B) Phalloidin Texas Red F-Actin stain (C) ATG13 Antibody (D) Composite.



Western blot analysis of Human HEK293 showing detection of ~56.6kDa ATG13 protein using Rabbit Anti-ATG13 Polyclonal Antibody (ASM10530). Lane 1: MW Ladder. Lane 2: Human HEK293 (20 µg). Load: 20 µg. Block: 5% milk + TBST for 1 hour at RT. Primary Antibody: Rabbit Anti-ATG13 Polyclonal Antibody (ASM10530) at 1:1000 for 1 hour at RT. Secondary Antibody: Goat Anti-Rabbit: HRP at 1:2000 for 1 hour at RT. Color Development: TMB solution for 12 min at RT. Predicted/Observed Size: ~56.6kDa.

ATG13 Antibody - Background

ATG13 is an autophagy factor required for phagosome formation. It is a target of the TOR kinase signaling pathway that regulates autophagy through phosphorylation of ATG13 and ULK1, and the regulation of the ATG13-ULK1-RB1CC1 complex (1-3).

ATG13 Antibody - References

1. Mercer C.A., Kaliappan A., Dennis P.B. (2009) Autophagy. 5(5): 649-662.
2. Hosokawa N., et al. (2009) Mol Biol Cell. 20(7): 1981-1991.
3. Chan E.Y., Longatti A., McKnight N.C., Tooze S.A. (2009) Mol Cell Biol. 29(1): 157-171.