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Datasheet for ABIN783663

anti-ATG13 antibody (C-Term)

2 Images

Overview

| | |
|----------------------|--|
| Quantity: | 0.1 mg |
| Target: | ATG13 |
| Binding Specificity: | C-Term |
| Reactivity: | Human, Mouse, Rat |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This ATG13 antibody is un-conjugated |
| Application: | Western Blotting (WB), Immunofluorescence (IF), Enzyme Immunoassay (EIA) |

Product Details

| | |
|-----------------------------|--|
| Immunogen: | 15 amino acid peptide near the carboxy terminus of human ATG13 |
| Cross-Reactivity (Details): | Species reactivity (tested):Human, mouse, rat |
| Purification: | Affinity chromatography purified via peptide column |

Target Details

| | |
|-------------------|--|
| Target: | ATG13 |
| Alternative Name: | KIAA0652 (ATG13 Products) |
| Background: | Autophagy, the process of bulk degradation of cellular proteins through an autophagosomic-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 |

Target Details

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: UPF0630 protein KIAA0652

Gene ID: 9776

NCBI Accession: [NP_001136145](#)

UniProt: [O75143](#)

Pathways: [PI3K-Akt Signaling, Autophagy](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Concentration: 1.0 mg/mL

Buffer: PBS containing 0.02 % sodium azide

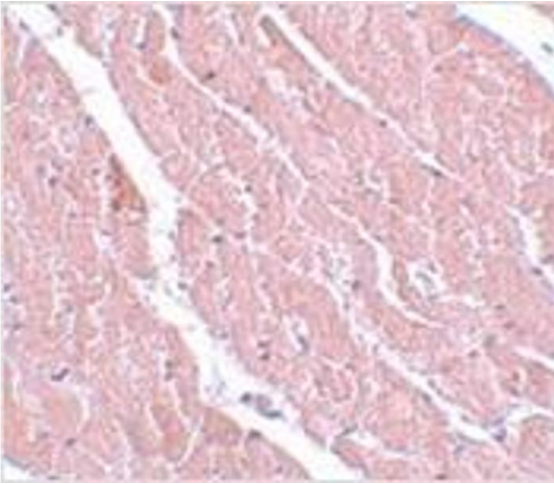
Preservative: Sodium azide

Precaution of Use: This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

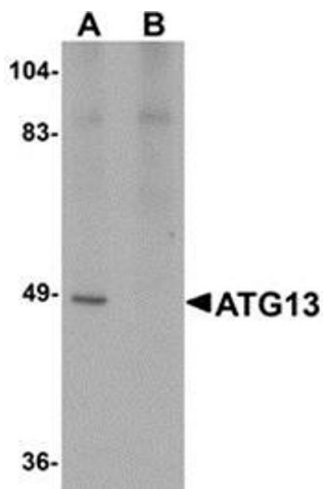
Storage: -20 °C

Storage Comment: Store the antibody (in aliquots) at -20 °C.



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemistry of ATG13 in mouse heart with ATG13 antibody at 5 µg/ml.



Western Blotting

Image 2. Western blot analysis of ATG13 in rat heart tissue lysate with ATG13 antibody at 1 µg/ml in (A) the absence and (B) the presence of blocking peptide.