

Anti-FAM134B Antibody [PSH01-94]

HA721752



Product Type: Recombinant Rabbit monoclonal IgG, primary antibodies

Species reactivity: Human, Mouse, Rat

Applications: WB, IF-Cell

Molecular Wt: Predicted band size: 55 kDa

Clone number: PSH01-94

Description: Endoplasmic reticulum (ER)-anchored autophagy regulator which mediates ER delivery into lysosomes through sequestration into autophagosomes . Promotes membrane remodeling and ER scission via its membrane bending capacity and targets the fragments into autophagosomes via interaction with ATG8 family proteins . Active under basal conditions. Required for collagen quality control in a LIR motif-dependent manner (By similarity). Required for long-term survival of nociceptive and autonomic ganglion neurons.

Immunogen: Recombinant protein within human FAM134B aa 318-497 / 497.

Positive control: HEK-293 cell lysate, U-2 OS cell lysate, MCF7 cell lysate, HeLa cell lysate, HepG2 cell lysate, TT cell lysate, Jurkat cell lysate, NIH/3T3 cell lysate, C2C12 cell lysate, PC-12 cell lysate, C6 cell lysate, mouse liver tissue lysate, rat liver tissue lysate, Jurkat.

Subcellular location: Golgi apparatus, cis-Golgi network membrane, Endoplasmic reticulum membrane.

Database links: SwissProt: Q9H6L5 Human | Q8VE91 Mouse | Q5FVM3 Rat

Recommended Dilutions:

WB 1:1,000

IF-Cell 1:100

Storage Buffer: PBS (pH7.4), 0.1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co.,Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

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Images

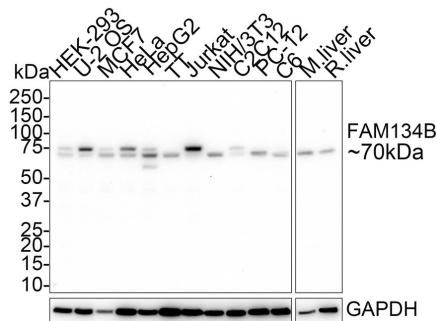


Fig1: Western blot analysis of FAM134B on different lysates with Rabbit anti-FAM134B antibody (HA721752) at 1/1,000 dilution.

Lane 1: HEK-293 cell lysate (30 µg/Lane)
 Lane 2: U-2 OS cell lysate (30 µg/Lane)
 Lane 3: MCF7 cell lysate (30 µg/Lane)
 Lane 4: HeLa cell lysate (30 µg/Lane)
 Lane 5: HepG2 cell lysate (30 µg/Lane)
 Lane 6: TT cell lysate (30 µg/Lane)
 Lane 7: Jurkat cell lysate (30 µg/Lane)
 Lane 8: NIH3T3 cell lysate (30 µg/Lane)
 Lane 9: C2C12 cell lysate (30 µg/Lane)
 Lane 10: PC-12 cell lysate (30 µg/Lane)
 Lane 11: C6 cell lysate (30 µg/Lane)
 Lane 12: Mouse liver tissue lysate (30 µg/Lane)
 Lane 13: Rat liver tissue lysate (30 µg/Lane)

Predicted band size: 55 kDa

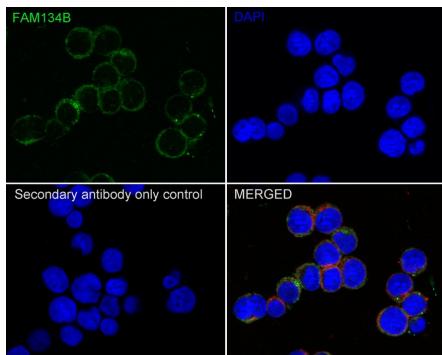
Observed band size: 70 kDa

Exposure time: 6 minutes 20 seconds;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA721752) at 1/1,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

Fig2: Immunocytochemistry analysis of Jurkat cells labeling FAM134B with Rabbit anti-FAM134B antibody (HA721752) at 1/100 dilution.



Cells were fixed in 80% precooled methanol for 5 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Rabbit anti-FAM134B antibody (HA721752) at 1/100 dilution in 1% BSA in PBST overnight at 4 °C. Goat Anti-Rabbit IgG H&L (iFluor™ 488, HA1121) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.

Beta tubulin (M1305-2, red) was stained at 1/100 dilution overnight at +4°C. Goat Anti-Mouse IgG H&L (iFluor™ 594, HA1126) was used as the secondary antibody at 1/1,000 dilution.

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Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Kohno S. et al. 2019. An N-terminal-truncated isoform of FAM134B (FAM134B-2) regulates starvation-induced hepatic selective ER-phagy. *Life Sci Alliance*. 17(2):e201900340.
2. Mookherjee D. et al. 2021. RETREG1/FAM134B mediated autophagosomal degradation of AMFR/GP78 and OPA1 - a dual organellar turnover mechanism. *Autophagy*. 17(7):1729-1752.

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