Anti-FAM134B Antibody [PSH01-94] - BSA and Azide free

HA750768

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: olgi 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).

Storage Instruction: Store at +4℃ after thawing. Aliquot store at -20℃. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

Images

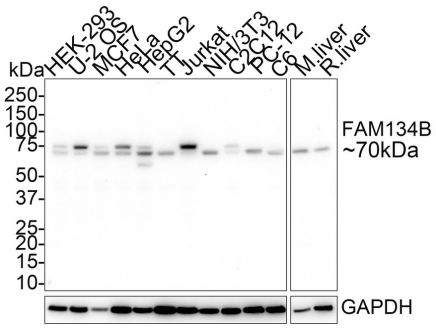

Fig1: Western blot analysis of FAM134B on different lysates with Rabbit anti-FAM134B antibody (HA750768) at 1/1,000 dilution.

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: NIH/3T3 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 (HA750768) at 1/1,000 dilution was used in 5% NFDM/TBST at 4℃ overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

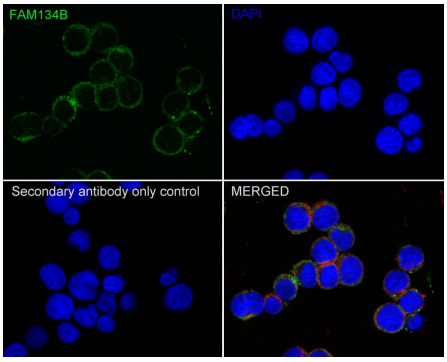

Fig2: Immunocytochemistry analysis of Jurkat cells labeling FAM134B with Rabbit anti-FAM134B antibody (HA750768) at 1/100 dilution.

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 (HA750768) at 1/100 dilution in 1% BSA in PBST overnight at 4 ℃. 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℃. Goat Anti-Mouse IgG H&L (iFluor™ 594, HA1126) was used as the secondary antibody at 1/1,000 dilution.

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(3):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.