

Product Datasheet

FAM134B Antibody - BSA Free NBP2-55248

Unit Size: 100 ul

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NBP2-55248

FAM134B Antibody - BSA Free

Product Information	
Unit Size	100 ul
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol

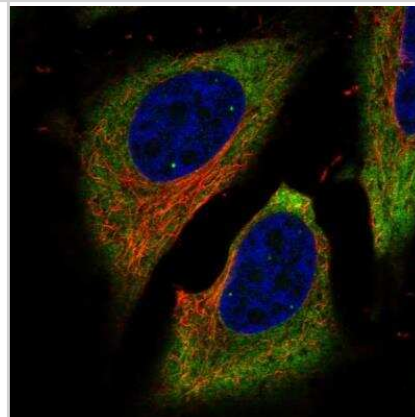
Product Description	
Description	Novus Biologicals Rabbit FAM134B Antibody - BSA Free (NBP2-55248) is a polyclonal antibody validated for use in ICC/IF. Anti-FAM134B Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	54463
Gene Symbol	RETREG1
Species	Human
Reactivity Notes	Mouse 86%, Rat 84%
Immunogen	This antibody was developed against a recombinant protein corresponding to the following amino acid sequence: ENGMGTNDEDELSLGLPTELKRKKEQLDSGHRPSKETQSAAGLTLPLNSDQTF HLMSNLAGDVITAAVTAAIKDQLEGVQQALSQAAPIPEEDTDTEEGDDFELLDQ SELDQIESELGLTQDQEAQQAQNKSSG

Product Application Details	
Applications	Immunocytochemistry/ Immunofluorescence
Recommended Dilutions	Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml
Application Notes	ICC/IF Fixation Permeabilization: Use PFA/Triton X-100.



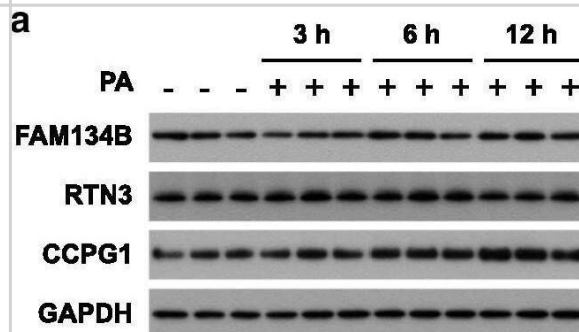
Images

Immunocytochemistry/Immunofluorescence: FAM134B Antibody [NBP2-55248] - Staining of human cell line HeLa shows localization to nuclear bodies & endoplasmic reticulum. Antibody staining is shown in green.



Western Blot: FAM134B Antibody [NBP2-55248] - Palmitate inhibits EBSS-induced ER-phagy. a–c Cells transiently expressing mRFP-LC3 were starved in EBSS for 3 h in the presence or absence of palmitate (0.1 mM) & were co-treated for 3 h with Baf A1. Treated cells were stained for the ER marker KDEL. Representative micrographs (a) & quantification (b) of colocalization between mRFP-LC3 & KDEL (n = 10 per each group). Scale bar, 10 μ m. Data are mean \pm SEM; ****p < 0.0001 vs. control, ####p = 0.0002, #####p < 0.0001, ††††p < 0.0001. c The ratio of the average number of KDEL-positive mRFP-LC3 puncta to the total number of mRFP-LC3 puncta per cell (n = 10 per each group). Data are mean \pm SEM; ****p < 0.0001 vs. control, #####p < 0.0001, ††††p < 0.0001. d & e Immunoblotting analysis (d) & quantification (e) of ER-phagy receptors & LC3-II in cells starved in EBSS for 3 h in the presence or absence of palmitate (0.1 mM) & were co-treated for 3 h with Baf A1 (FAM134B; n = 8 for control, PA, EBSS, PA + EBSS, n = 5 for control + Baf A1, PA + Baf A1, EBSS + Baf A1, PA + EBSS + Baf A1, RTN3; n = 4 per each group, CCPG1; n = 3 per each group, LC3-II; n = 9 for control, PA, EBSS, PA + EBSS, n = 4 for control + Baf A1, PA + Baf A1, EBSS + Baf A1, PA + EBSS + Baf A1). Data are mean \pm SEM; FAM134B; ****p < 0.0001 vs. control, ##p = 0.0016, ††p = 0.0094, CCPG1; ****p < 0.0001 vs. control, LC3-II; *p = 0.0331, ****p < 0.0001 vs. control, ###p = 0.0002 at PA vs. PA + Baf A1, ###p = 0.0005 at PA + EBSS vs. PA + EBSS + Baf A1, #####p < 0.0001, †p = 0.0203. n.s., no significant difference Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/33823883>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

Western Blot: FAM134B Antibody [NBP2-55248] - Palmitate impairs ER-phagy. a & b Immunoblotting analysis (a) & quantification (b) of ER-phagy receptors (FAM134B, RTN3, & CCPG1) in cells treated with 0.1 mM palmitate for the indicated times (FAM134B & RTN3; n = 4 per each group, CCPG1; n = 3 per each group). Data are mean \pm SEM; FAM134B; **p = 0.0053, ***p = 0.0005 vs. control, CCPG1; *p = 0.0388, ***p = 0.0004 vs. control. c & d Cells transiently expressing mRFP-LC3 were treated with 0.1 mM palmitate for the indicated times in the presence or absence of Baf A1 (200 nM). Treated cells were stained for the ER marker KDEL. Representative micrographs (c) & quantification (d) of colocalization between mRFP-LC3 & KDEL (n = 13 per each group). Scale bar, 10 μ m. Data are mean \pm SEM; **p = 0.0029, ***p = 0.0008 vs. control, ##p = 0.0025. n.s., no significant difference Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/33823883>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Lihua H, Andrew K, Scott H et al. DNAJB12 and Hsp70 Triage Arrested Intermediates of N1303K-CFTR for ER Associated-Autophagy. Mol Biol Cell. 2021-02-03 [PMID: 33534640]

Lim Y, Kim S, Kim EK Palmitate reduces starvation-induced ER stress by inhibiting ER-phagy in hypothalamic cells Molecular brain 2021-04-06 [PMID: 33823883]





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Products Related to NBP2-55248

NBP2-55248PEP	FAM134B Recombinant Protein Antigen
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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