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FAM134B Rabbit pAb

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Catalog # AP55070

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9H6L5
Reactivity	Rat, Human, Mouse
Predicted	Rabbit
Host	Rabbit
Clonality	Polyclonal
Calculated MW	54681
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human FAM134B
Epitope Specificity	210-310/497
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Golgi apparatus; cis-Golgi network membrane.
DISEASE	Defects in FAM134B are the cause of hereditary sensory and autonomic neuropathy type 2B (HSAN2B) [MIM:613115]. A form of hereditary sensory and autonomic neuropathy, a genetically and clinically heterogeneous group of disorders characterized by degeneration of dorsal root and autonomic ganglion cells, and by sensory and/or autonomic abnormalities. HSAN2B is an autosomal recessive disorder characterized by impairment of pain, temperature and touch sensation. Onset occurs in the first or second decade, with impaired nociception and progressive mutilating ulceration of the hands and feet with osteomyelitis and acroosteolysis. Amputations of the hands and feet are common. Autonomic dysfunction includes hyperhidrosis, urinary incontinence, and slow pupillary light response.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Required for long-term survival of nociceptive and autonomic ganglion neurons.

Additional Information

Gene ID	54463
Other Names	Reticulophagy regulator 1 {ECO:0000312|HGNC:HGNC:25964}, Reticulophagy receptor 1, RETREG1 (HGNC:25964)
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,Flow-Cyt=0.2ug/test
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody

is stable for at least two weeks at 2-4 °C.

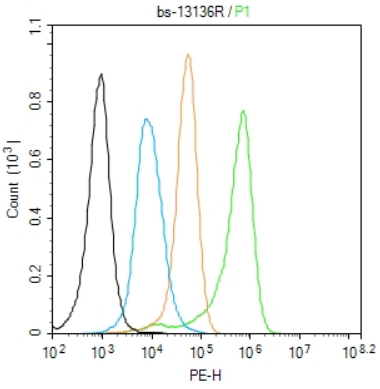
Protein Information

Name	RETREG1 (HGNC:25964)
Function	Endoplasmic reticulum (ER)-anchored autophagy regulator which mediates ER delivery into lysosomes through sequestration into autophagosomes (PubMed:26040720, PubMed:31930741, PubMed:34338405). Promotes membrane remodeling and ER scission via its membrane bending capacity and targets the fragments into autophagosomes via interaction with ATG8 family proteins (PubMed:26040720, PubMed:31930741, PubMed:34338405). Active under basal conditions (PubMed:34338405). Required for collagen quality control in a LIR motif-dependent manner (By similarity). Required for long-term survival of nociceptive and autonomic ganglion neurons (PubMed:19838196, PubMed:26040720).
Cellular Location	Golgi apparatus, cis-Golgi network membrane {ECO:0000250|UniProtKB:Q8VE91}; Multi-pass membrane protein. Endoplasmic reticulum membrane; Multi-pass membrane protein
Tissue Location	Overexpressed in esophageal squamous cell carcinoma (PubMed:17487424).

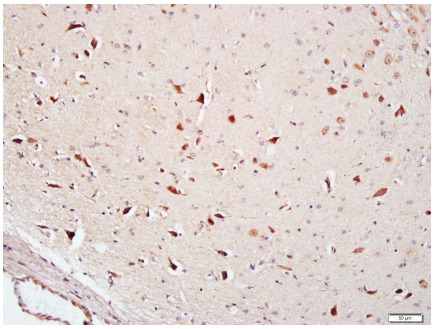
Background

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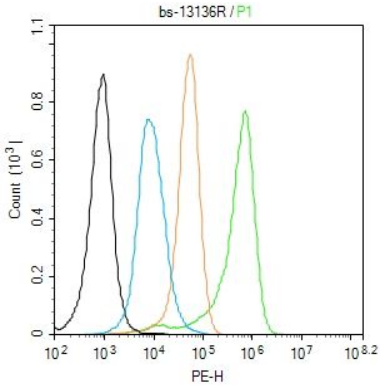
Images



U-937 cells were fixed with 4% PFA for 10min at room temperature,permeabilized with 20% PBST for 20 min at room temperature, and incubated in 5% BSA blocking buffer for 30 min at room temperature. Cells were then stained with FAM134B Antibody(AP55070)at 1:500 dilution in blocking buffer and incubated for 30 min at room temperature, washed twice with 2%BSA in PBS, followed by secondary antibody incubation for 40 min at room temperature. Acquisitions of 20,000 events were performed. Cells stained with primary antibody (green), and isotype control (orange).



Paraformaldehyde-fixed, paraffin embedded (mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (FAM134B) Polyclonal Antibody, Unconjugated (AP55070) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.