

FAM134C Rabbit pAb

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Catalog # AP58899

Product Information

Application	WB
Primary Accession	Q86VR2
Reactivity	Mouse
Predicted	Rat, Pig, Dog, Human, Rabbit, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	51396
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human FAM134C
Epitope Specificity	76-180/466
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	Membrane; Multi-pass membrane protein (Potential).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Chromosome 17 makes up over 2.5% of the human genome with about 81 million bases encoding over 1,200 genes. Two key tumor suppressor genes are associated with chromosome 17, namely, p53 and BRCA1. Tumor suppressor p53 is necessary for maintenance of cellular genetic integrity by moderating cell fate through DNA repair versus cell death. Malfunction or loss of p53 expression is associated with malignant cell growth and Li-Fraumeni syndrome. Like p53, BRCA1 is directly involved in DNA repair, though specifically it is recognized as a genetic determinant of early onset breast cancer and predisposition to cancers of the ovary, colon, prostate gland and fallopian tubes. Chromosome 17 is also linked to neurofibromatosis, a condition characterized by neural and epidermal lesions, and dysregulated Schwann cell growth. Alexander disease, Birt-Hogg-Dube syndrome and Canavan disease are also associated with chromosome 17. The FAM134C gene product has been provisionally designated FAM134C pending further characterization.

Additional Information

Gene ID	162427
Other Names	Reticulophagy regulator 3, RETREG3 (HGNC:27258), FAM134C
Dilution	WB=1:500-2000
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.

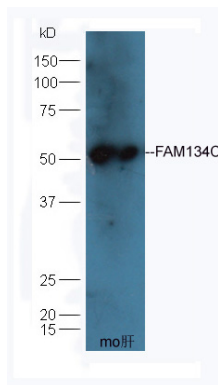
Protein Information

Name	RETREG3 (HGNC:27258)
Synonyms	FAM134C
Function	Endoplasmic reticulum (ER)-anchored autophagy regulator which exists in an inactive state under basal conditions but is activated following cellular stress (PubMed: 34338405). When activated, induces ER fragmentation and mediates ER delivery into lysosomes through sequestration into autophagosomes via interaction with ATG8 family proteins (PubMed: 34338405). Promotes ER membrane curvature and ER tubulation required for subsequent ER fragmentation and engulfment into autophagosomes (PubMed: 33826365). Required for collagen quality control in a LIR motif-dependent manner (By similarity). Mediates NRF1-enhanced neurite outgrowth (PubMed: 26040720).
Cellular Location	Endoplasmic reticulum membrane; Multi-pass membrane protein. Note=Localizes preferentially to endoplasmic reticulum tubules and sheet edges

Background

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Images



Sample: Liver (Mouse) Lysate at 40 ug
Primary: Anti-FAM134C (AP58899) at 1/300 dilution
Secondary: HRP conjugated Goat-Anti-rabbit IgG (AP58899-HRP) at 1/5000 dilution
Predicted band size: 51 kD
Observed band size: 51 kD

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