

For Research Use Only

# FAM134B Polyclonal antibody

Catalog Number: 21537-1-AP

Featured Product

32 Publications



## Basic Information

<b>Catalog Number:</b> 21537-1-AP	<b>GenBank Accession Number:</b> BC030517	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 600 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 54463	<b>Recommended Dilutions:</b> WB 1:2000-1:16000 IHC 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9H6L5	
<b>Isotype:</b> IgG	<b>Full Name:</b> family with sequence similarity 134, member B	
<b>Immunogen Catalog Number:</b> AG16176	<b>Calculated MW:</b> 497 aa, 55 kDa	
	<b>Observed MW:</b> 65 kDa	

## Applications

### Tested Applications:

IHC, WB, ELISA

### Cited Applications:

IF, WB

### Species Specificity:

human, mouse, rat

### Cited Species:

human, rat, mouse, pig

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

WB : C2C12 cells, HEK-293 cells, rat brain tissue, mouse brain, mouse cerebellum

IHC : mouse brain tissue, mouse heart tissue

## Background Information

FAM134B, also known as the reticulophagy regulator 1 (RETREG1) or JK-1, is a member of the family with sequence similarity 134. FAM134B is an important ER-phagy receptor. FAM134B regulates the size and shape of the ER and participates in some ER-phagy-related processes (PMID: 33199694). FAM134B inhibition contributes to impair proteostasis in the ER due to the accumulation of misfolded or aggregated proteins, which in turn leads to compromised neuronal survival and progressive neuronal degenerative diseases. In addition, FAM134B mutations are common in patients with colorectal adenocarcinoma, and oesophageal squamous cell carcinoma (PMID: 29226326).

## Notable Publications

Author	Pubmed ID	Journal	Application
Mark L Schultz	30202070	Nat Commun	WB
Smriti Parashar	34467852	Elife	WB, IF
Svenja Zielke	33111629	Autophagy	WB

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

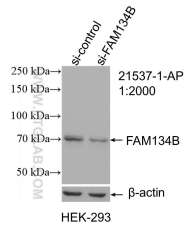
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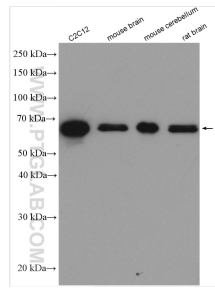
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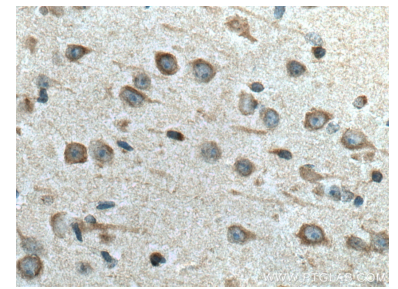
## Selected Validation Data



WB result of FAM134B antibody (21537-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-FAM134B transfected HEK-293 cells.



Various lysates were subjected to SDS PAGE followed by western blot with 21537-1-AP (FAM134B antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 21537-1-AP (FAM134B antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).