

For Research Use Only

# FAM38B Recombinant antibody

Catalog Number:83488-4-RR



## Basic Information

Catalog Number:

83488-4-RR

Size:

1000 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG24528

GenBank Accession Number:

AB527139

GeneID (NCBI):

63895

UNIPROT ID:

Q9H5I5

Full Name:

family with sequence similarity 38, member B

Calculated MW:

318 kDa

Observed MW:

250-310 kDa, 80 kDa

Purification Method:

Protein A purification

CloneNo.:

240406E5

Recommended Dilutions:

WB 1:500-1:2000

## Applications

Tested Applications:

WB, ELISA

Species Specificity:

human

Positive Controls:

WB : HeLa cells,

## Background Information

FAM38B, also named as PIEZO2, is a mechanosensitive, rapidly inactivating (RI) ion channel which is open and converts the mechanical stimulus signals into bioelectrical signals after stimulated by mechanical signals. FAM38B has been recently identified in dorsal root ganglion (DRG) neurons to mediate tactile transduction. It plays an important role in the biological process, maintaining cell metabolism and cell migration. Loss-of-function mutations in the human FAM38B gene cause an autosomal recessive syndrome of muscular atrophy with perinatal respiratory distress, arthrogryposis, and scoliosis. The 80 kDa band detected by SDS-PAGE can be caused by alternative splicing (PMID: 34335288, 37227654).

## 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

For technical support and original validation data for this product please contact:

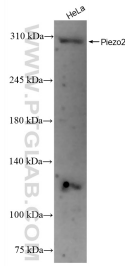
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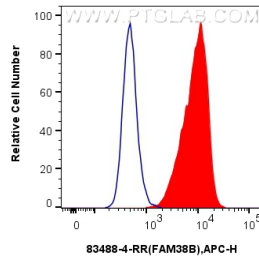
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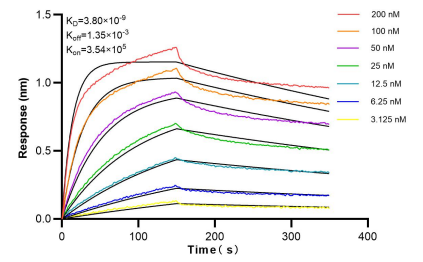
## Selected Validation Data



HeLa cells were subjected to SDS PAGE followed by western blot with 83488-4-RR (FAM38B antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



$1 \times 10^6$  A431 cells were intracellularly stained with 0.25  $\mu$ g Fam38b Recombinant Antibody (83488-4-RR, Clone:240406E5) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (red), or 0.25  $\mu$ g Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Bi-layer interferometry (BLI) kinetic assays of 83488-4-RR against Human FAM38B were performed. The affinity constant is 3.8 nM.