

For Research Use Only

FAM38B Recombinant antibody

Catalog Number: 83488-4-RR



Basic Information

Catalog Number: 83488-4-RR	GenBank Accession Number: AB527139	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 63895	CloneNo.: 240406E5
Source: Rabbit	UNIPROT ID: Q9H5I5	Recommended Dilutions: WB 1:500-1:2000
Isotype: IgG	Full Name: family with sequence similarity 38, member B	
Immunogen Catalog Number: AG24528	Calculated MW: 318 kDa	
	Observed MW: 250-310 kDa, 80 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : HeLa cells,
Species Specificity: human	

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

*** 20ul sizes contain 0.1% BSA

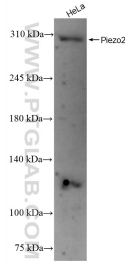
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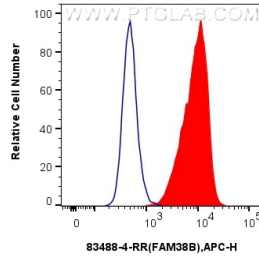
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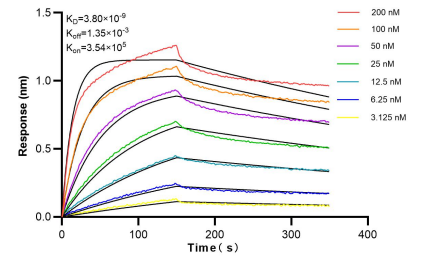
Selected Validation Data



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.



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



Bioluminescence resonance energy transfer (BRET) kinetic assays of 83488-4-RR against Human FAM38B were performed. The affinity constant is 3.8 nM.