

For Research Use Only

FAM38B Recombinant antibody, PBS Only (Capture)

Catalog Number: 83488-4-PBS



Basic Information

Catalog Number: 83488-4-PBS	GenBank Accession Number: AB527139	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 63895	CloneNo.: 240406E5
Source: Rabbit	UNIPROT ID: Q9H5I5	
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, Cytometric bead array, Indirect ELISA

Species Specificity:
human

Product Information

83488-4-PBS targets FAM38B as part of a matched antibody pair:

MP00488-2: 83488-4-PBS capture and 83488-1-PBS detection (validated in Cytometric bead array)

MP00488-3: 83488-4-PBS capture and 83488-2-PBS detection (validated in Cytometric bead array)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

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

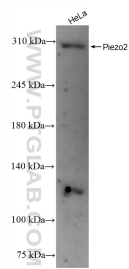
Storage:
Store at -80°C.

Storage Buffer:
PBS only

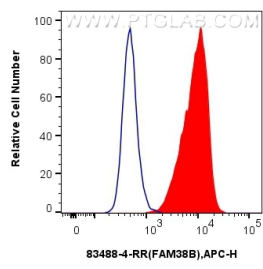
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

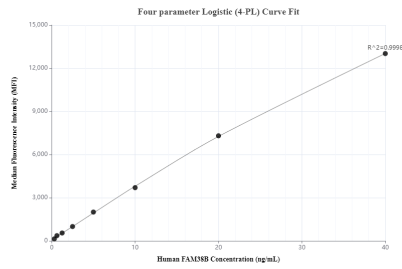
Selected Validation Data



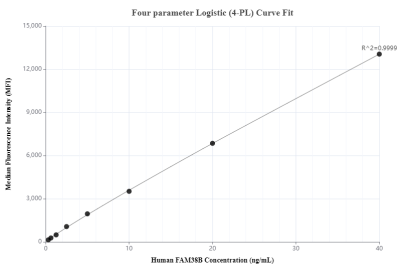
HeLa cells were subjected to SDS PAGE followed by western blot with 83488-4-RR (FAM38B antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83488-4-PBS in a different storage buffer formulation.



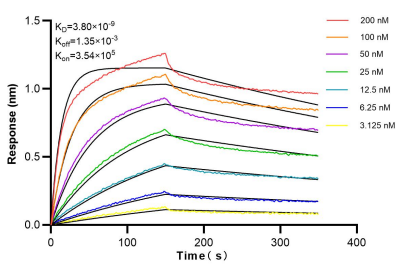
1x10⁶ A431 cells were intracellularly stained with 0.25 ug Fam38b Recombinant Antibody (83488-4-RR, Clone:240406E5) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same antibody clone with 83488-4-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP00488-2, FAM38B Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83488-4-PBS. Detection antibody: 83488-1-PBS. Standard: Ag24528. Range: 0.313-40 ng/mL



Cytometric bead array standard curve of MP00488-3, FAM38B Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83488-4-PBS. Detection antibody: 83488-2-PBS. Standard: Ag24528. Range: 0.313-40 ng/mL



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