info@arigobio.com

ARG57978
anti-PIEZO1 / FAM38A antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes PIEZO1 / FAM38A
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	PIEZO1 / FAM38A
Species	Human
Immunogen	Recombinant fusion protein corresponding to aa. 2230-2420 of Human PIEZO1. (NP_001136336.2).
Conjugation	Un-conjugated
Alternate Names	Mib; Piezo-type mechanosensitive ion channel component 1; Membrane protein induced by beta-amyloid treatment; FAM38A; Protein FAM38A; DHS

Application Instructions

Application table

Application	Dilution
ICC/IF	1:50 - 1:200
WB	1:100 - 1:500

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Observed Size: ~ 300 kDa

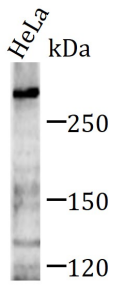
Properties

Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

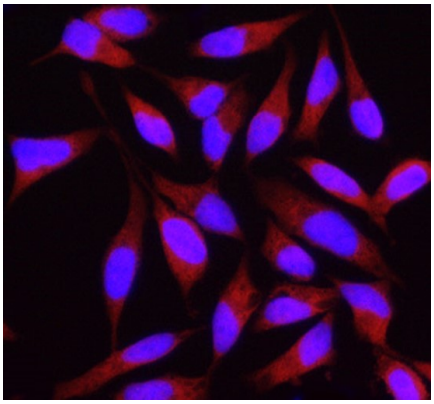
Gene Symbol	PIEZO1
Gene Full Name	piezo-type mechanosensitive ion channel component 1
Background	The protein encoded by this gene is a mechanically-activated ion channel that links mechanical forces to biological signals. The encoded protein contains 36 transmembrane domains and functions as a homotetramer. Defects in this gene have been associated with dehydrated hereditary stomatocytosis. [provided by RefSeq, Jul 2015]
Function	Pore-forming subunit of a mechanosensitive non-specific cation channel. Generates currents characterized by a linear current-voltage relationship and are sensitive to ruthenium red and gadolinium. Plays a key role in epithelial cell adhesion by maintaining integrin activation through R-Ras recruitment to the ER, most probably in its activated state, and subsequent stimulation of calpain signaling. In the kidney, may contribute to the detection of intraluminal pressure changes and to urine flow sensing. Acts as shear-stress sensors that promote endothelial cell organization and alignment in the direction of blood flow. Plays a key role in blood vessel formation and vascular structure in both development and adult physiology. [UniProt]
Calculated Mw	287 kDa
Cellular Localization	Cell membrane, Cell projection, Endoplasmic reticulum membrane, Endoplasmic reticulum-Golgi intermediate compartment membrane, Multi-pass membrane protein, lamellipodium membrane. [UniProt]

Images



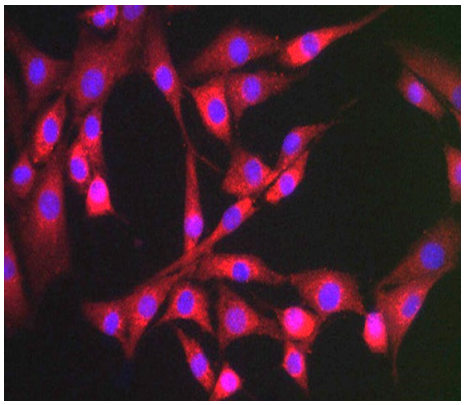
ARG57978 anti-PIEZO1 / FAM38A antibody WB image

Western blot: HeLa cell lysate stained with ARG57978 anti-PIEZO1 / FAM38A antibody at 1:500 dilution.



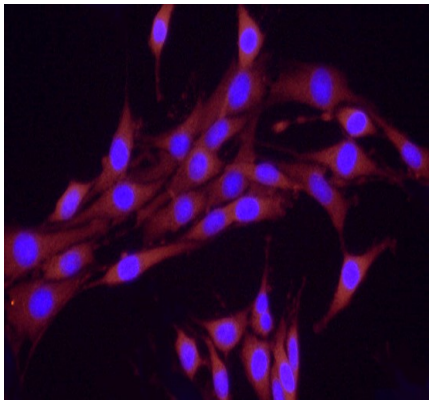
ARG57978 anti-PIEZO1 / FAM38A antibody ICC/IF image

Immunofluorescence: Human MCF7 cells stained with ARG57978 anti-PIEZO1 / FAM38A antibody at 1:100 dilution.



ARG57978 anti-PIEZO1 / FAM38A antibody ICC/IF image

Immunofluorescence: Mouse NIH-3T3 cells stained with ARG57978 anti-PIEZO1 / FAM38A antibody at 1:100 dilution.



ARG57978 anti-PIEZO1 / FAM38A antibody ICC/IF image

Immunofluorescence: Rat PC-12 cells stained with ARG57978 anti-PIEZO1 / FAM38A antibody at 1:100 dilution.