DATASHEET

PIEZO1 Rabbit Polyclonal Antibody

CAT. NO. APA14369

KEY FEATURES

Target	PIEZO1	Source / Host	Rabbit
Reactivity	Human	Clonality	Polyclonal
Applications	WB, IF/ICC	Conjugation	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.	Storage	at-20°C

BACKGROUND

Pore-forming subunit of the mechanosensitive non-specific cation Piezo channel required for rapidly adapting mechanically activated (MA) currents and has a key role in sensing touch and tactile pain currents and has a key role in sensing touch and tactile pain . Piezo channels are homotrimeric three-blade propeller-shaped structures that utilize a cap-motion and plug-and-latch mechanism to gate their ion-conducting pathways . Generates currents characterized by a linear current-voltage relationship that are sensitive to ruthenium red and gadolinium . Conductance to monovalent alkali ions is highest for K(+), intermediate for Na(+) and lowest for Li(+) . Divalent ions except for Mn(2+) permeate the channel but more slowly than the monovalent ions and they also reduce K(+) currents .

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
IF/ICC	1:50 - 1:200

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

Description	Rabbit polyclonal antibody to PIEZO1
Specificity	Recognizes endogenous levels of PIEZO1 protein.
Antibody Type	Primary antibody
Immunogen	Recombinant fusion protein of human PIEZO1
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 286 kD; Observed: 287 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	FAM38A; KIAA0233; Piezo-type mechanosensitive ion channel component 1; Membrane protein induced by beta-amyloid treatment; Mib; Protein FAM38A
Gene Symbol	PIEZO1
Entrez Gene	9780(Human)
SwissProt	Q92508(Human)

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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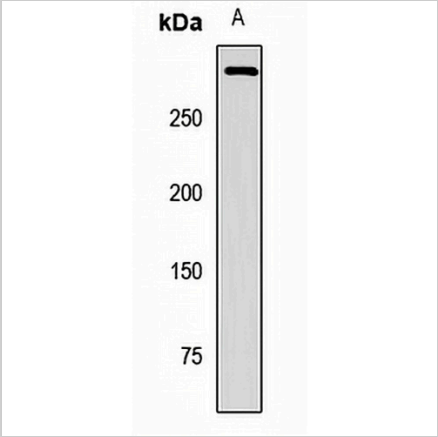
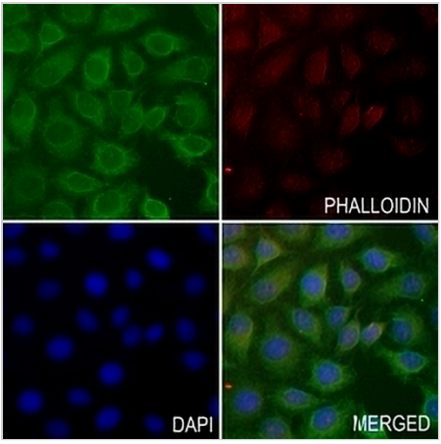
DATA



Western blot analysis of PIEZO1 expression in MCF7 (A) whole cell lysates. (Predicted band size: 286 kD; Observed band size: 287 kD)



Immunofluorescent analysis of PIEZO1 staining in A549 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AREX® Fluor 488 -conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AREX® Fluor 594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.