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Datasheet for ABIN7163444  
**anti-PIEZO1 antibody (AA 2230-2420)**

2 Images

Overview

Quantity:	100 µL
Target:	PIEZO1
Binding Specificity:	AA 2230-2420
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PIEZO1 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), ELISA

Product Details

Immunogen:	Recombinant Human Piezo-type mechanosensitive ion channel component 1 protein (2230-2420AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	Antigen Affinity Purified

Target Details

Target:	PIEZO1
Alternative Name:	PIEZO1 ( <a href="#">PIEZO1 Products</a> )
Background:	Background: Pore-forming subunit of a mechanosensitive non-specific cation channel

## Target Details

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(PubMed:23479567, PubMed:23695678). Generates currents characterized by a linear current-voltage relationship that 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 (PubMed:20016066). In the kidney, may contribute to the detection of intraluminal pressure changes and to urine flow sensing. Acts as shear-stress sensor that promotes endothelial cell organization and alignment in the direction of blood flow through calpain activation (PubMed:25119035). Plays a key role in blood vessel formation and vascular structure in both development and adult physiology (By similarity).

Aliases: DHS antibody, Fam38a antibody, Family with sequence similarity 38 member A antibody, KIAA0233 antibody, Membrane protein induced by beta-amyloid treatment antibody, Mib antibody, PIEZ1\_HUMAN antibody, Piezo-type mechanosensitive ion channel component 1 antibody, PIEZO1 antibody, Protein FAM38A antibody, Protein FAM38B antibody, Protein PIEZO1 antibody

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UniProt: [Q92508](#)

## Application Details

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Application Notes: Recommended dilution: IHC:1:20-1:200,

Restrictions: For Research Use only

## Handling

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Format: Liquid

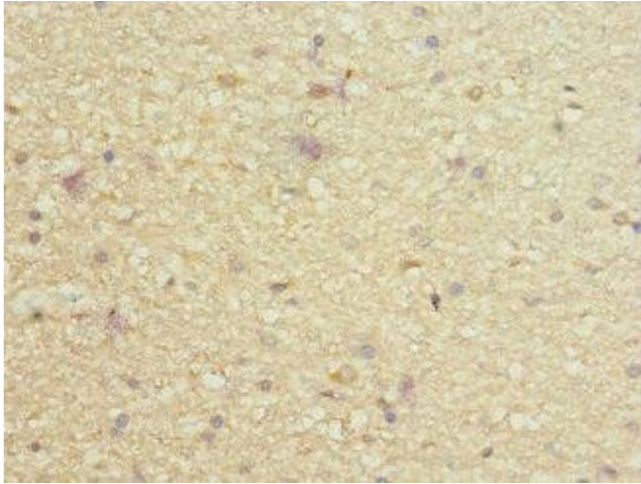
Buffer: PBS with 0.02 % sodium azide, 50 % glycerol, pH 7.3.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

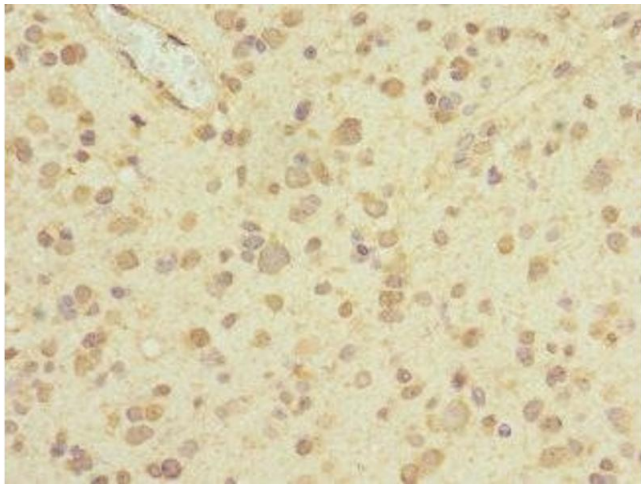
Storage: -20 °C,-80 °C

Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.



#### Immunohistochemistry

**Image 1.** Immunohistochemistry of paraffin-embedded human brain tissue using ABIN7163444 at dilution of 1:100



#### Immunohistochemistry

**Image 2.** Immunohistochemistry of paraffin-embedded human glioma using ABIN7163444 at dilution of 1:100