SunLong Biotech Co.,LTD
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**[ Primary Antibody ]**

# Rabbit Anti-PIEZO1 antibody

**Catalog Number: SL14991R**

**FOR RESEARCH USE ONLY**

**[ DATASHEET ]**

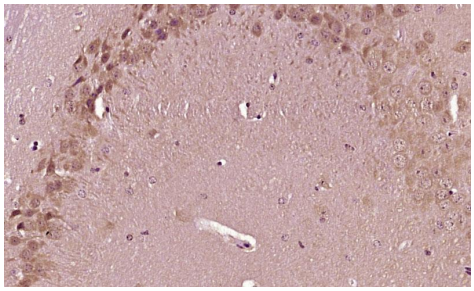
| | |
|---|---|
| **Host:** | Rabbit |
| **Isotype:** | IgG |
| **Clonality:** | Polyclonal |
| **Target:** | PIEZO1 |
| **Immunogen:** | KLH conjugated synthetic peptide derived from human FAM38A: 2451-2521/2521 |
| **Purification:** | affinity purified by Protein A |
| **Concentration:** | 1mg/ml |
| **Storage:** | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. |
| **Applications:** | IHC-P=1:100-500<br>IHC-F=1:100-500<br>ICC/IF=1:100-500<br>IF=1:100-500 （Paraffin sections need antigen repair）<br>not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user. |
| **Reactivity:** | Human,Mouse(predicted:Rat,Dog,Cow,Sheep) |
| **Predicted MW.:** | 287kDa |
| **Subcellular Location:** | cytoplasmic The cell membrane |
| **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]<br>**Function:** Component of mechanosensitive channel required for the mechanosensitive currents. 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.<br>**Subcellular Location:** Endoplasmic reticulum membrane. Endoplasmic reticulum-Golgi intermediate compartment membrane. Cell membrane. |

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

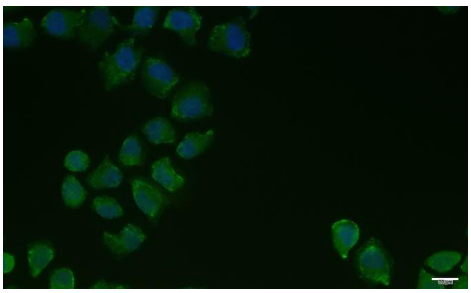
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|---|---|
| | **Tissue Specificity:** Expressed in numerous tissues. In normal brain, expressed exclusively in neurons, not in astrocytes. In Alzheimer disease brains, expressed in about half of the activated astrocytes located around classical senile plaques. In Parkinson disease substantia nigra, not detected in melanin-containing neurons nor in activated astrocytes.<br>**Similarity:** Belongs to the PIEZO family.<br>**Database links:**<br>**Entrez Gene:** 9780 Human<br>**Entrez Gene:** 234839 Mouse<br>**Entrez Gene:** 361430 Rat<br>Omim: 611184 Human<br>**SwissProt:** Q92508 Human<br>**SwissProt:** E2JF22 Mouse<br>**SwissProt:** Q0KL00 Rat<br>**Unigene:** 377001 Human<br>**Unigene:** 592074 Human<br>**Unigene:** 37324 Mouse<br>**Unigene:** 20892 Rat |

## [ VALIDATION IMAGES ]



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (FAM38A) Polyclonal Antibody, Unconjugated (SL14991R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Hela cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (PIEZO1) polyclonal Antibody, Unconjugated (SL14991R) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.

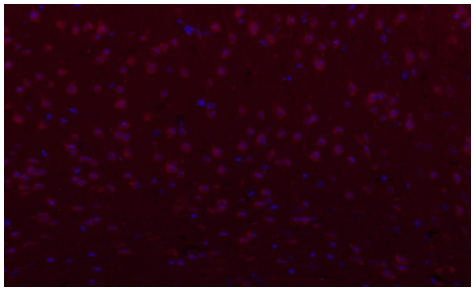
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