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# Rabbit Anti-FAM38A antibody

SL14991R

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| **Product Name:** | FAM38A |
| **Chinese Name:** | FAM38A蛋白抗体 |
| **Alias:** | Fam38a; KIAA0233; Membrane protein induced by beta-amyloid treatment; Mib; PIEZ1_HUMAN; Piezo-type mechanosensitive ion channel component 1; PIEZO1; Protein FAM38A; Protein FAM38B; Protein PIEZO1. |
| **Organism Species:** | Rabbit |
| **Clonality:** | Polyclonal |
| **React Species:** | Human,Mouse,Rat,Dog,Cow,Sheep, |
| **Applications:** | ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=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. |
| **Molecular weight:** | 287kDa |
| **Cellular localization:** | cytoplasmicThe cell membrane |
| **Form:** | Lyophilized or Liquid |
| **Concentration:** | 1mg/ml |
| **immunogen:** | KLH conjugated synthetic peptide derived from human FAM38A:2451-2521/2521 |
| **Lsotype:** | IgG |
| **Purification:** | affinity purified by Protein A |
| **Storage Buffer:** | 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol. |
| **Storage:** | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |
| **PubMed:** | PubMed |
| **Product Detail:** | Piezos are large transmembrane proteins conserved among various species, all having between 24 and 36 predicted transmembrane domains. 'Piezo' comes from the Greek 'piesi,' meaning 'pressure.' The FAM38A gene encodes PIEZO1, a protein that induces mechanically activated (MA) currents in various cell types (Coste et al., 2010 [PubMed 20813920]).[supplied by OMIM, Nov 2010] |

**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.

**Subcellular Location:**
Endoplasmic reticulum membrane. Endoplasmic reticulum-Golgi intermediate compartment membrane. Cell membrane.

**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.

**Similarity:**
Belongs to the PIEZO family.

**SWISS:**
Q92508

**Gene ID:**
9780

**Database links:**

Entrez Gene: 9780 Human

Entrez Gene: 234839 Mouse

Entrez Gene: 361430 Rat

Omim: 611184 Human

SwissProt: Q92508 Human

SwissProt: E2JF22 Mouse

SwissProt: Q0KL00 Rat

Unigene: 377001 Human

Unigene: 592074 Human

Unigene: 37324 Mouse

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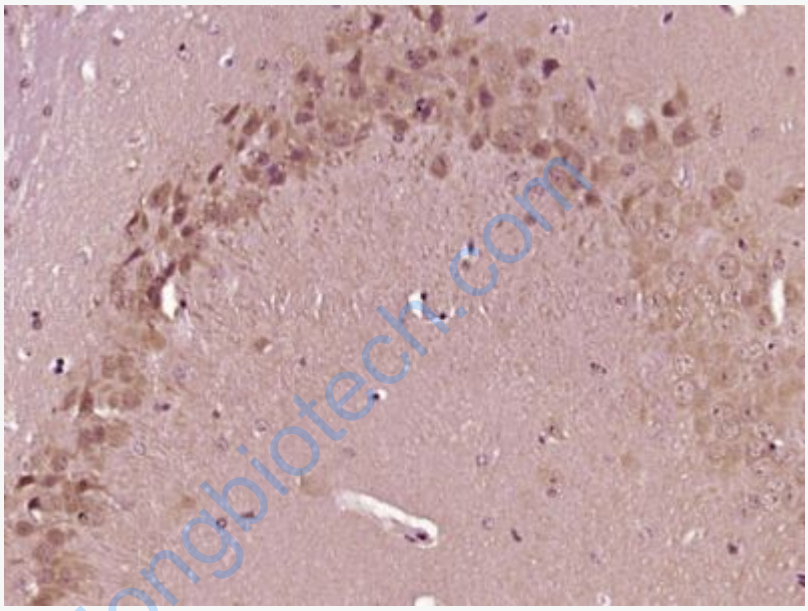
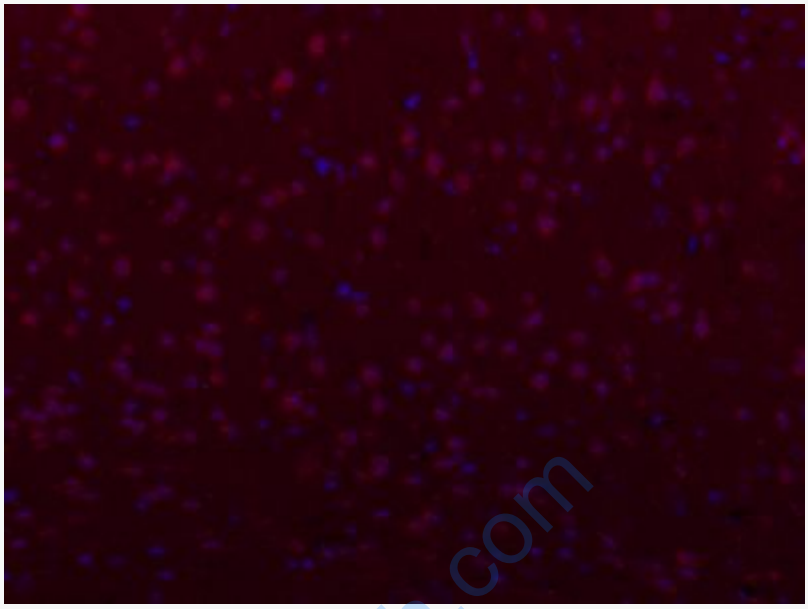
| | Unigene: 20892 Rat<br><br>**Important Note:**<br>This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |
| **Picture:** |  <br>Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate 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. |



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 a conjugated Goat Anti-Rabbit IgG antibody (SL14991R) for 90 minutes, and DAPI for nuclei staining.