Protein FAM38A Antibody

Catalog No: #48073

Package Size: #48073-1 50ul #48073-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

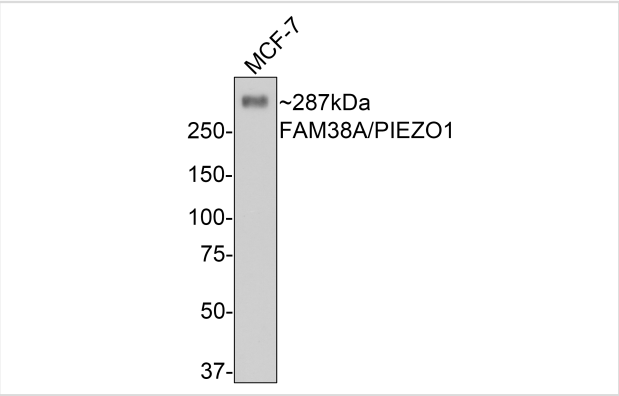
Description

Product Name	Protein FAM38A Antibody
Host Species	Mouse
Clonality	Monoclonal
Clone No.	2018/2/10
Purification	ProA affinity purified
Applications	WB, IHC, ICC
Species Reactivity	Human;Mouse
Immunogen Description	Recombinant protein.
Conjugates	Unconjugated
Other Names	DHS Fam38a Family with sequence similarity 38 member A 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
Accession No.	Swiss-Prot#:Q92508
Calculated MW	287 kDa
Formulation	1*PBS (pH7.4), 0.2% BSA, 50% Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

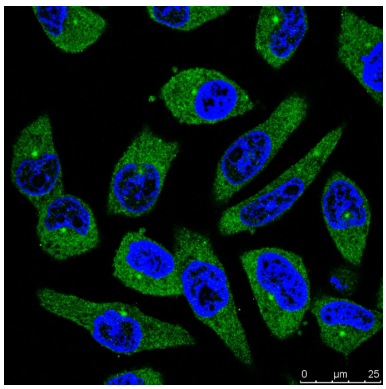
Application Details

WB 1:500-1:2000o'O IHC 1:200-1:600o'O ICC 1:100o'O

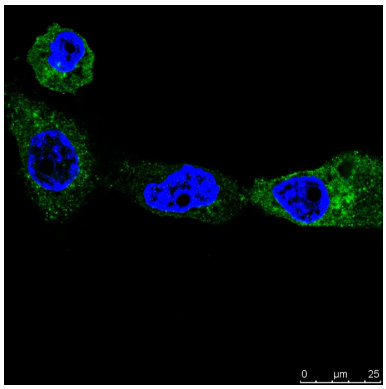
Images



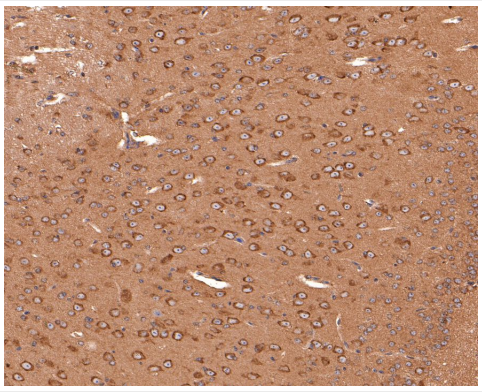
Western blot analysis of FAM38A on MCF-7 cell lysates with Mouse anti-FAM38A antibody at 1/500 dilution.



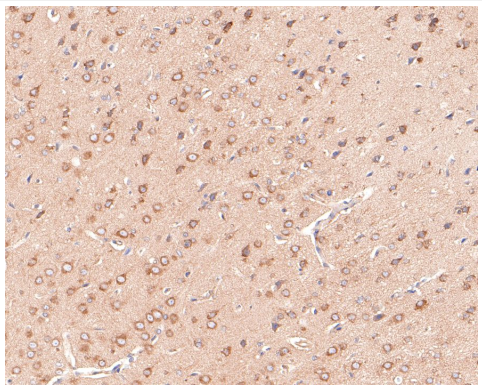
Immunocytochemistry analysis of Hela cells with FAM38A at 1/100 dilution.



Immunocytochemistry analysis of A431 cells with FAM38A at 1/100 dilution.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue with FAM38A at 1/200 dilution.



Immunohistochemical analysis of paraffin-embedded rat brain tissue with FAM38A at 1/600 dilution.

Background

Pore-forming subunit of a mechanosensitive non-specific cation channel. 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. 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. Plays a key role in blood vessel formation and vascular structure in both development and adult physiology.

References

1 Lee W et al. Synergy between Piezo1 and Piezo2 channels confers high-strain mechanosensitivity to articular cartilage. Proc Natl Acad Sci U S A 111:E5114-22 (2014).
2 Jia S et al. FAM3A promotes vascular smooth muscle cell proliferation and migration and exacerbates neointima formation in rat artery after balloon injury. J Mol Cell Cardiol 74:173-82 (2014).

Published Papers

el at., Impaired AT2 to AT1 cell transition in PM2.5-induced mouse model of chronic obstructive pulmonary disease. In Respir Res on 2022 Mar 25 by Hongjiao Yu, Yingnan Lin,et al..PMID:35337337, , (2022)

PMID:35337337

Note: This product is for in vitro research use only and is not intended for use in humans or animals.