

For Research Use Only

Piezo2 Polyclonal antibody

Catalog Number: 26205-1-AP **5 Publications**



Basic Information

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|---|---|---|
| Catalog Number: 26205-1-AP | GenBank Accession Number: AB527139 | Purification Method: Antigen affinity purification |
| Size: 400 µg/ml | GeneID (NCBI): 63895 | Recommended Dilutions: WB 1:500-1:2000 IHC 1:200-1:800 |
| Source: Rabbit | UNIPROT ID: Q9H5I5 | |
| Isotype: IgG | Full Name: family with sequence similarity 38, member B | |
| Immunogen Catalog Number: AG24528 | Calculated MW: 318 kDa | |
| | Observed MW: 80 kDa | |

Applications

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| Tested Applications: IHC, WB, ELISA | Positive Controls: WB : HUVEC cells, Neuro-2a cells, SK-N-SH cells IHC : human liver tissue, mouse eye tissue |
| Cited Applications: IHC, WB | |
| Species Specificity: human, mouse | |
| Cited Species: human, mouse | |
| Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 | |

Background Information

FAM38B, also named as PIEZO2, is a mechanosensitive, rapidly inactivating (RI) ion channel which is open and converts the mechanical stimulus signals into bioelectrical signals after stimulated by mechanical signals. FAM38B has been recently identified in dorsal root ganglion (DRG) neurons to mediate tactile transduction. It plays an important role in the biological process, maintaining cell metabolism and cell migration. Loss-of-function mutations in the human FAM38B gene cause an autosomal recessive syndrome of muscular atrophy with perinatal respiratory distress, arthrogryposis, and scoliosis. The 80 kDa band detected by SDS-PAGE can be caused by alternative splicing (PMID: 34335288, 37227654).

Notable Publications

| Author | Pubmed ID | Journal | Application |
|-----------|-----------|----------------|-------------|
| Lu Gao | 36429014 | Cells | IHC |
| Yunlu Liu | 35844802 | Int J Biol Sci | IHC |
| Yue Wan | 36598105 | Glia | WB |

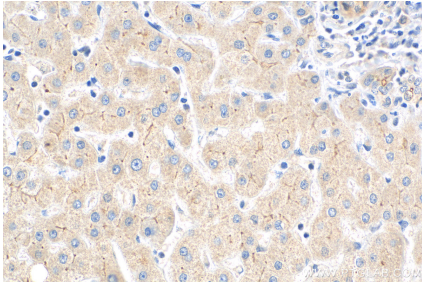
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

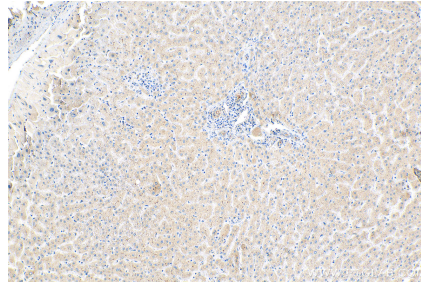
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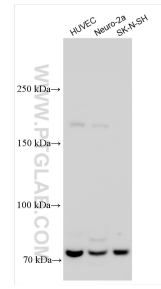
Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 26205-1-AP (Piezo2 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 26205-1-AP (Piezo2 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 26205-1-AP (Piezo2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.