For Research Use Only

Piezo2 Polyclonal antibody

Catalog Number:26205-1-AP 5 Publications

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Basic Information

Catalog Number:
26205-1-AP

Size:
150ul , Concentration: 400 μg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG24528

GenBank Accession Number:
AB527139

GeneID (NCBI):
63895

UNIPROT ID:
Q9H5I5

Full Name:
family with sequence similarity 38, member B

Calculated MW:
318 kDa

Observed MW:
80 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:2000
IHC 1:200-1:800

Applications

Tested Applications:
IHC, WB, ELISA

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

Positive Controls:

WB : HUVEC cells, Neuro-2a cells, SK-N-SH cells

IHC : human liver tissue, mouse eye tissue

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

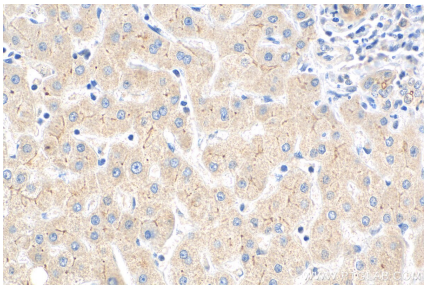
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

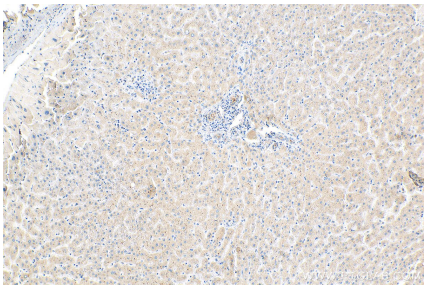
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

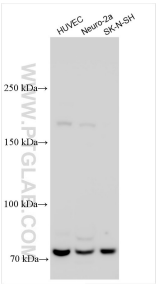
Selected Validation Data



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.