

For Research Use Only

TMEM55B Polyclonal antibody

Catalog Number: 23992-1-AP

Featured Product

5 Publications



Basic Information

Catalog Number:
23992-1-AP

Size:
150ul, Concentration: 700 µg/ml by
Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG21172

GenBank Accession Number:
BC002867

GeneID (NCBI):
90809

Full Name:
transmembrane protein 55B

Calculated MW:
277 aa, 29 kDa

Observed MW:
29-32 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:2000-1:10000
IP 0.5-4.0 ug for IP and 1:500-1:1000
for WB

Applications

Tested Applications:
IP, WB, ELISA

Cited Applications:
IP, WB

Species Specificity:
human, mouse, rat

Cited Species:
human, monkey, mouse, rat

Positive Controls:

WB : HeLa cells, mouse heart tissue, A549 cells, HepG2
cells, MCF-7 cells, rat heart tissue

IP : HeLa cells,

Background Information

TMEM55B is also named as C14orf9 and PIP4P1. TMEM55B is originally identified as phosphatidylinositol-4,5-P2-4-phosphatases (PtdIns-4,5-P2-4-phosphatases) that catalyze dephosphorylation of PtdIns-4,5-P2 to PtdIns-5-P. The transmembrane protein TMEM55B is involved in the perinuclear clustering of lysosomes upon starvation. TMEM55B expression is upregulated upon starvation via TFEB and TFE3 activation, and loss of TMEM55B diminishes starvation-induced lysosomal clustering. TMEM55B can bind to the dynein adaptor JIP4, promoting dynein-dynactin-dependent lysosomal trafficking to the perinuclear region. TMEM55B is also suggested to contribute to lysosomal homeostasis and mTORC1 activation via the V-ATPase assembly (PMID: 33537719).

Notable Publications

Author	Pubmed ID	Journal	Application
Michiko Shirane	32917905	Nat Commun	WB
Yuan Yuan Qin	32188273	Arterioscler Thromb Vasc Biol	WB, IP
Jun Nakamura	36649084	JCI Insight	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

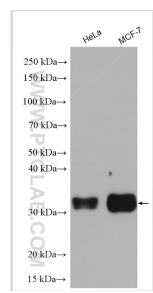
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free
in USA), or 1(312) 455-8498 (outside USA)

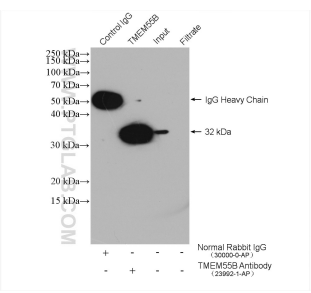
E: proteintech@ptglab.com
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 23992-1-AP (TMEM55B antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



IP result of anti-TMEM55B (IP:23992-1-AP, 4µg; Detection:23992-1-AP 1:500) with HeLa cells lysate 1600 µg.