

## Anti-TMEM55B/PIP4P1 Antibody

Catalog Number: A12499

### About PIP4P1

TMEM55B is also named as C14orf9 and PIP4P1. TMEM55B is originally identified as phosphatidylinositol-4,5-P24-phosphatases (PtdIns-4,5-P24-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).

### Overview

Product Name	Anti-TMEM55B/PIP4P1 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-TMEM55B/PIP4P1 Antibody catalog # A12499. Tested in WB, IP, ELISA applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IP, WB
Clonality	Polyclonal
Formulation	500 ug/ml antibody with PBS, 0.02% NaN <sub>3</sub> , 1 mg stabilizing protein and 50% glycerol This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	12 months from date of receipt at -20°C as supplied. 6 months at 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	Q86T03

### Technical Details

Immunogen	E.coli-derived human TMEM55B/PIP4P1 recombinant protein (Position: G17-P80).
Form	Liquid
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 1:500-2000

ImmunoPrecipitation, 1:250-300  
ELISA, 1:100-1000

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