

TM55B Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13171b

Specification

TM55B Antibody (C-term) - Product Information

Application	WB, IHC-P, FC,E
Primary Accession	Q86T03
Other Accession	Q5PPM8 , Q3TWL2 , Q4R6W2 , NP_001094284.1 , NP_653169.2
Reactivity Predicted	Human Monkey, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Calculated MW	29470
Antigen Region	183-211

TM55B Antibody (C-term) - Additional Information

Gene ID 90809

Other Names

Type 1 phosphatidylinositol 4, 5-bisphosphate 4-phosphatase, Type 1 PtdIns-4, 5-P2 4-Ptase, PtdIns-4, 5-P2 4-Ptase I, Transmembrane protein 55B, TMEM55B, C14orf9

Target/Specificity

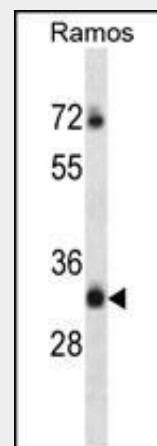
This TM55B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 183-211 amino acids from the C-terminal region of human TM55B.

Dilution

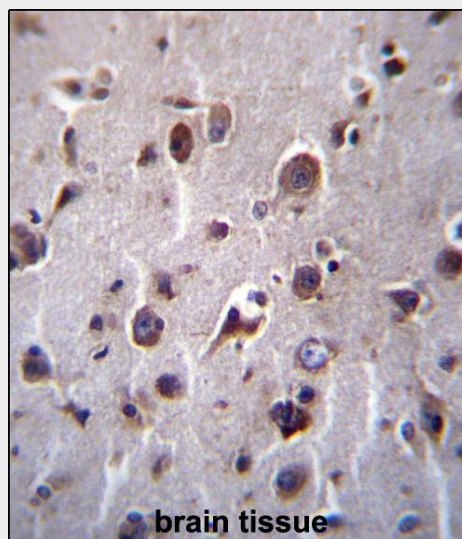
WB~~1:1000
IHC-P~~1:10~50
FC~~1:10~50

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.



TM55B Antibody (C-term) (Cat. #AP13171b) western blot analysis in Ramos cell line lysates (35ug/lane). This demonstrates the TM55B antibody detected the TM55B protein (arrow).



TM55B Antibody (C-term) (Cat. #AP13171b) immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of TM55B Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

TM55B Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

TM55B Antibody (C-term) - Protein Information

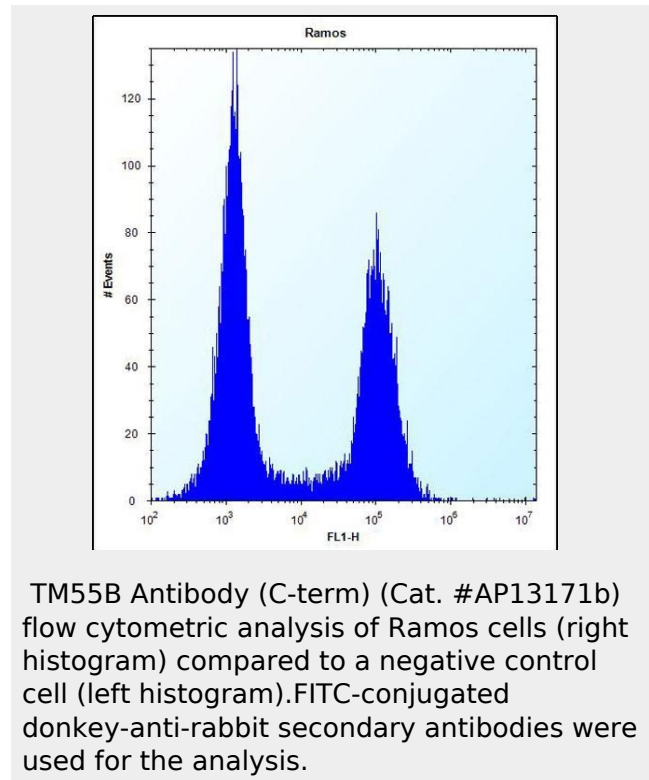
Name PIP4P1 ([HGNC:19299](#))

Function

Catalyzes the hydrolysis of phosphatidylinositol-4,5- bisphosphate (PtdIns-4,5-P2) to phosphatidylinositol-4-phosphate (PtdIns-4-P) (PubMed:16365287). Does not hydrolyze phosphatidylinositol 3,4,5-trisphosphate, phosphatidylinositol 3,4-bisphosphate, inositol 3,5-bisphosphate, inositol 3,4-bisphosphate, phosphatidylinositol 5- monophosphate, phosphatidylinositol 4-monophosphate and phosphatidylinositol 3-monophosphate (PubMed:16365287). Regulates lysosomal positioning by recruiting JIP4 to lysosomal membranes, thus inducing retrograde transport of lysosomes along microtubules (PubMed:29146937). Contributes to assembly of the V-ATPase complex in lipid rafts of the lysosomal membrane and to subsequent amino acid-dependent activation of mTORC1 (PubMed:29644770). May play a role in the regulation of cellular cholesterol metabolism (PubMed:25035345).

Cellular Location

Late endosome membrane; Multi-pass membrane protein. Lysosome membrane; Multi- pass membrane protein. Cytoplasmic vesicle, phagosome membrane



TM55B Antibody (C-term) - Background

TMEM55B catalyzes the degradation of phosphatidylinositol 4,5-bisphosphate (PtdIns-4,5-P2) by removing the 4-phosphate (Ungewickell et al., 2005 [PubMed 16365287]).

TM55B Antibody (C-term) - References

Zou, J., et al. Proc. Natl. Acad. Sci. U.S.A. 104(43):16834-16839(2007)
Ungewickell, A., et al. Proc. Natl. Acad. Sci. U.S.A. 102(52):18854-18859(2005)

{ECO:0000250|UniProtKB:Q3TWL2};
Multi-pass membrane protein. Cell
membrane
{ECO:0000250|UniProtKB:Q3TWL2};
Multi-pass membrane protein

Tissue Location

Ubiquitous..

TM55B Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)