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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	**Human**
Predicted	**Monkey, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
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.

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

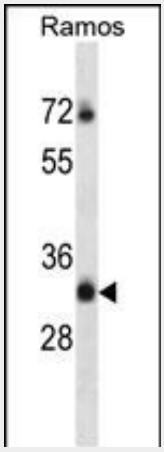
Tissue Location
Ubiquitous..

TM55B Antibody (C-term) - Protocols

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

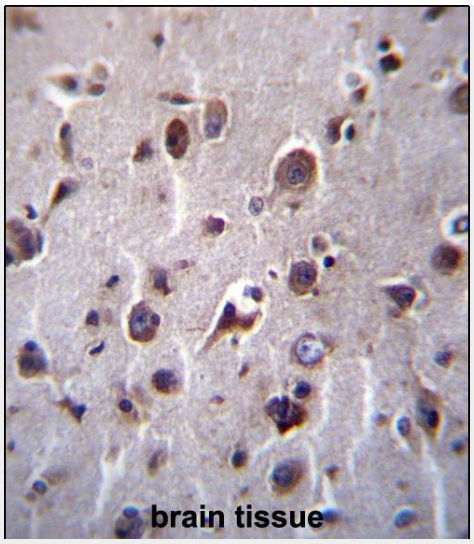
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

TM55B Antibody (C-term) - Images

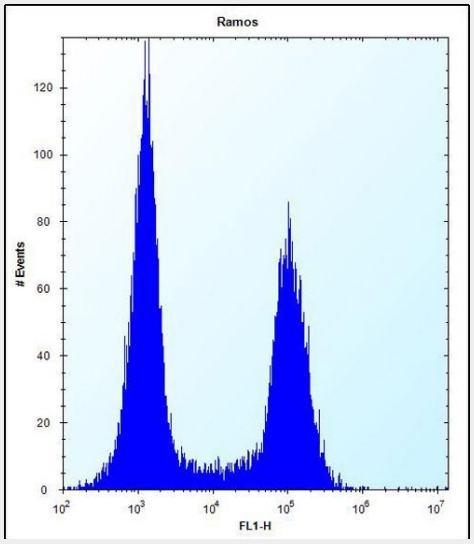


TM55B Antibody (C-term) (Cat. #AP13171b) western blot analysis in Ramos cell line lysates (35ug/lane).This demonstrates the TM55B antibody detected the TM55B protein (arrow).

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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.



TM55B Antibody (C-term) (Cat. #AP13171b) flow cytometric analysis of Ramos cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated donkey-anti-rabbit secondary antibodies were used for the analysis.

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)