10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

WTX Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6553c

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q5JTC6
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB18795
Calculated MW	124029
Antigen Region	681-708

Additional Information

Gene ID	139285
Other Names	APC membrane recruitment protein 1, Amer1, Protein FAM123B, Wilms tumor gene on the X chromosome protein, AMER1, FAM123B, WTX
Target/Specificity	This WTX antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 681-708 amino acids from the Central region of human WTX.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
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	WTX Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	AMER1
Synonyms	FAM123B, WTX
Function	Regulator of the canonical Wnt signaling pathway. Acts by specifically

	binding phosphatidylinositol 4,5-bisphosphate (PtdIns(4,5)P2), translocating to the cell membrane and interacting with key regulators of the canonical Wnt signaling pathway, such as components of the beta-catenin destruction complex. Acts both as a positive and negative regulator of the Wnt signaling pathway, depending on the context: acts as a positive regulator by promoting LRP6 phosphorylation. Also acts as a negative regulator by acting as a scaffold protein for the beta-catenin destruction complex and promoting stabilization of Axin at the cell membrane. Promotes CTNNB1 ubiquitination and degradation. Involved in kidney development.
Cellular Location	Cytoplasm. Cell membrane; Peripheral membrane protein; Cytoplasmic side. Nucleus. Note=Shuttles between nucleus and cytoplasm. Detected in nuclear paraspeckles that are found close to splicing speckles. Translocates to the cell membrane following binding to PtdIns(4,5)P2
Tissue Location	Detected in fetal and adult kidney, brain and spleen.

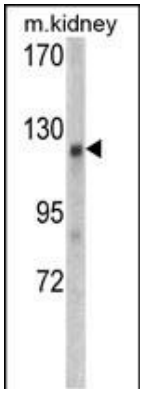
Background

WTX is involved in kidney development.

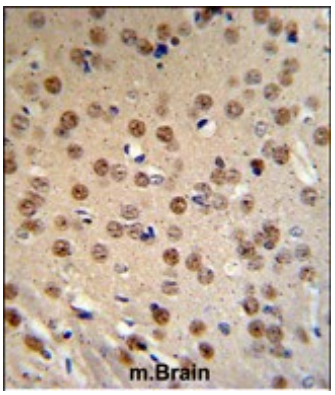
References

Rivera,M.N., Proc. Natl. Acad. Sci. U.S.A. 106 (20), 8338-8343 (2009) Fukuzawa,R., Oncogene 28 (8), 1063-1075 (2009)

Images

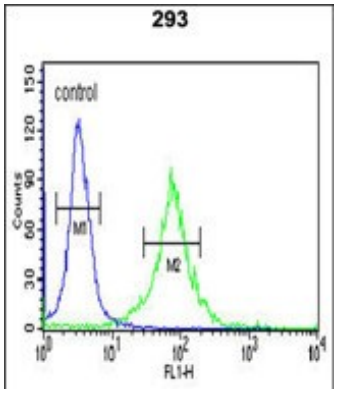


Western blot analysis of WTX antibody (Center) (Cat. #AP6553c) in mouse kidney tissue lysates (35ug/lane). WTX (arrow) was detected using the purified Pab.



WTX Antibody (Center) (Cat. #AP6553c) IHC analysis in formalin fixed and paraffin embedded mouse brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the WTX Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

WTX Antibody (Center) (Cat. #AP6553c) flow cytometric analysis of 293 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated



goat-anti-rabbit secondary antibodies were used for the analysis.