

# ANKFY1 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP4704b

## Product Information

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<b>Application</b>	WB, IHC-P, FC, E
<b>Primary Accession</b>	<a href="#">Q9P2R3</a>
<b>Reactivity</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB24898
<b>Calculated MW</b>	128399
<b>Antigen Region</b>	436-465

## Additional Information

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<b>Gene ID</b>	51479
<b>Other Names</b>	Rabankyrin-5, Rank-5, Ankyrin repeat and FYVE domain-containing protein 1, Ankyrin repeats hooked to a zinc finger motif, ANKFY1, ANKHZN, KIAA1255
<b>Target/Specificity</b>	This ANKFY1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 436-465 amino acids from the C-terminal region of human ANKFY1.
<b>Dilution</b>	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
<b>Format</b>	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.
<b>Storage</b>	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.
<b>Precautions</b>	ANKFY1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	ANKFY1
<b>Synonyms</b>	ANKHZN, KIAA1255
<b>Function</b>	Proposed effector of Rab5. Binds to phosphatidylinositol 3- phosphate

(PI(3)P). Involved in homotypic early endosome fusion and to a lesser extent in heterotypic fusion of clathrin-coated vesicles with early endosomes. Involved in macropinocytosis; the function is dependent on Rab5-GTP. Required for correct endosomal localization. Involved in the internalization and trafficking of activated tyrosine kinase receptors such as PDGFRB. Regulates the subcellular localization of the retromer complex in a EHD1-dependent manner. Involved in endosome-to-Golgi transport and biosynthetic transport to late endosomes and lysosomes indicative for a regulation of retromer complex-mediated retrograde transport.

#### Cellular Location

Cytoplasm. Endosome membrane; Peripheral membrane protein. Early endosome. Note=Also associated with endosomal membranes. Localizes to macropinosomes.

#### Tissue Location

High expression in whole adult brain and intermediate expression in all other tissues and specific brain regions examined, including fetal brain.

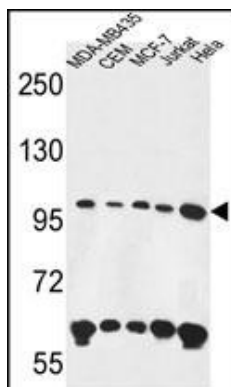
## Background

ANKFY1 encodes a cytoplasmic protein that contains a coiled-coil structure and a BTB/POZ domain at its N-terminus, ankyrin repeats in the middle portion, and a FYVE-finger motif at its C-terminus. This protein belongs to a subgroup of double zinc finger proteins which may be involved in vesicle or protein transport.

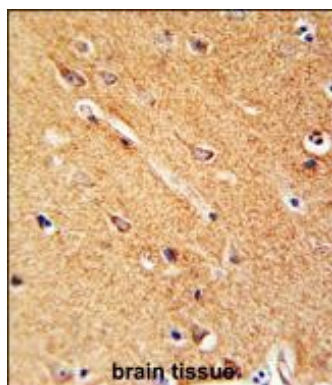
## References

Bouslam, N., et al. Hum. Genet. 121 (3-4), 413-420 (2007)  
Schnatwinkel, C., et al. PLoS Biol. 2 (9), E261 (2004)

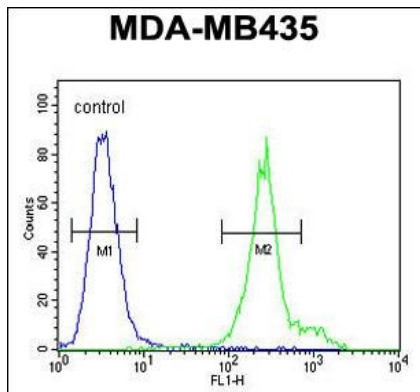
## Images



ANKFY1 Antibody (C-term) (Cat. #AP4704b) western blot analysis in MDA-MB435,CEM,MCF-7,Jurkat,Hela cell line lysates (35ug/lane).This demonstrates the ANKFY1 antibody detected the ANKFY1 protein (arrow).



ANKFY1 Antibody (C-term) (Cat. #AP4704b) 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 the ANKFY1 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



ANKFY1 Antibody (C-term) (Cat. #AP4704b) flow cytometric analysis of MDA-MB435 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

## Citations

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- [Rapid degradation of progressive ankylosis protein \(ANKH\) in craniometaphyseal dysplasia.](#)
- [Cellular uptake of extracellular vesicles is mediated by clathrin-independent endocytosis and macropinocytosis.](#)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.