

Rabbit anti-Human ANKFY1 Polyclonal Antibody | anti-ANKFY1 antibody

ANKFY1 Antibody (C-term)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA288443	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

ANKFY1; Polyclonal Antibody; ANKFY1 Antibody (C-term); Rabankyrin-5; Rank-5; Ankyrin repeat and FYVE domain-containing protein 1; Ankyrin repeats hooked to a zinc finger motif; ANKHZN; KIAA1255; anti-ANKFY1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	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.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/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.
Sequence Positions	436-465
Sequence Length	1,211
Applicable Applications for anti-ANKFY1 antibody	ELISA, FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Function	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.
Preparation and 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.

IMAGES



FCM/FACS (Flow Cytometry)
ANKFY1 Antibody (C-term) 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.



IHC (Immunohistochemistry)
ANKFY1 Antibody (C-term) 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.



WB (Western Blot)
ANKFY1 Antibody (C-term) 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).

ADDITIONAL INFORMATION

Related Product Information for anti-ANKFY1 antibody	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.
Product Categories/Family for anti-ANKFY1 antibody	Signal Transduction
References	Bouslam, N., et al. Hum. Genet. 121 (3-4), 413-420 (2007) Schnatwinkel, C., et al. PLoS Biol. 2 (9), E261 (2004)

NCBI AND UNIPROT INFORMATION

NCBI GI #	384367970
NCBI GeneID	51479
NCBI Accession #	NP_001244928.1; NP_057460.3
NCBI GenBank Nucleotide #	NM_001257999.1
UniProt Accession #	Q9P2R3; Q5RKV4; Q9ULG5; A8KA65
NCBI Official Full Name	rabankyrin-5 isoform 3
NCBI Official Synonym Full Names	ankyrin repeat and FYVE domain containing 1
NCBI Official Symbol	ANKFY1
NCBI Official Synonym Symbols	ANKHZN; BTBD23; ZFYVE14
NCBI Protein Information	rabankyrin-5
UniProt Protein Name	Rabankyrin-5
UniProt Gene Name	ANKFY1
UniProt Synonym Gene Names	ANKHZN; KIAA1255; Rank-5
UniProt Entry Name	ANFY1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

