

**ANKFY1 Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP4704b****Specification**

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**ANKFY1 Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [Q9P2R3](#)**ANKFY1 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 51479**Other Names**

Rabankyrin-5, Rank-5, Ankyrin repeat and FYVE domain-containing protein 1, Ankyrin repeats hooked to a zinc finger motif, ANKFY1, ANKHZN, KIAA1255

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**ANKFY1 Antibody (C-term) Blocking Peptide - Protein Information****Name** ANKFY1**Synonyms** ANKHZN, KIAA1255**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.

### **ANKFY1 Antibody (C-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

### **ANKFY1 Antibody (C-term) Blocking Peptide - Images**

### **ANKFY1 Antibody (C-term) Blocking Peptide - 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.

### **ANKFY1 Antibody (C-term) Blocking Peptide - References**

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