ANKFY1 Protein, Human (Sf9, His, Strep)

Cat. No.:	HY-P701530
Synonyms:	ANKFY1; Rabankyrin-5; Rank-5; Ankyrin repeat and FYVE domain-containing protein 1; Ankyrin repeats hooked to a zinc finger motif
Species:	Human
Source:	Sf9 insect cells
Accession:	Q9P2R3 (A2-S1169)
Gene ID:	51479
Molecular Weight:	

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 μm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	Please use rapid thawing with running water to thaw the protein.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	ANKFY1, a proposed effector of Rab5, plays a crucial role in endosomal dynamics by binding to phosphatidylinositol 3-phosphate (PI(3)P) and facilitating homotypic early endosome fusion. It also participates, albeit to a lesser extent, in the heterotypic fusion of clathrin-coated vesicles with early endosomes. ANKFY1 is intricately involved in macropinocytosis, a process dependent on Rab5-GTP. Additionally, ANKFY1 is essential for the correct endosomal localization and internalization of activated tyrosine kinase receptors, such as PDGFRB. Notably, it regulates the subcellular localization of the retromer complex in an EHD1-dependent manner, impacting endosome-to-Golgi transport and biosynthetic transport to late endosomes and lysosomes. Interactions with key proteins like RAB5A, RHOD, EHD1, and VPS26A underscore ANKFY1's role in coordinating various aspects of endosomal and retrograde transport processes.

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