Recombinant RFIP4 protein (His tag)

Catalog Number	545360
Synonyms	FIP4-Rab11; Rab11-FIP4; Arfophilin-2
Species	Human
Expression System	E. coli
Accession	Q86YS3
Molecular Weight	Predictes a molecular mass of 36.78 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 46 kDa band.

Product Information

Sequence Region	341-637
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 341-637 aa (Q86YS3) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Recombinant Human Rab11 Family-Interacting Protein 4 (FIP4-Rab11) Fragment (aa 341-637) is a high-purity protein designed for studying endocytic trafficking and cytokinesis. This 297-amino acid fragment fully encompasses the FIP-RBD domain, making it an ideal tool for investigating specific molecular interactions and regulatory mechanisms in cellular membrane delivery processes. Rab11 Family-Interacting Protein 4 (FIP4-Rab11) functions as a key regulator of endocytic traffic by participating in membrane delivery processes. It plays a critical role in the abscission step of cytokinesis, potentially serving as an 'address tag' that delivers recycling endosome membranes to the cleavage furrow during late cytokinesis. The protein localizes to multiple cellular compartments including endosomes, recycling endosome membranes, cleavage furrows, midbodies, centrosomes, and cytoplasmic vesicles. During cytokinesis, it is specifically recruited to the cleavage furrow and midbody. In human cytomegalovirus (HCMV) infection contexts, FIP4-Rab11 may participate in viral egress from the nucleus through an ARF6-independent mechanism.