Recombinant RIPL2 protein (His tag)

Catalog Number	547903
Synonyms	Rab-interacting lysosomal protein-like 2; p40phox-binding protein
Species	Human
Expression System	E. coli
Accession	Q969X0
Molecular Weight	Predictes a molecular mass of 20.61 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 25 kDa band.

Product Information

Sequence Region	1-166
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 1-166 aa (Q969X0) 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 RILP-like protein 2 (RILPL2) fragment (amino acids 1-166) is a high-purity protein designed for investigating the RH1 domain's role in neuronal morphogenesis, cell shape regulation, and protein transport processes. This fragment serves as an essential tool for domain-specific functional studies. RILP-like protein 2 (RILPL2), also known as p40phox-binding protein, is involved in critical cellular processes including cell shape determination and neuronal morphogenesis, where it positively regulates dendritic spine establishment and maintenance. The protein contributes to cellular protein transport mechanisms, including transport away from primary cilia, potentially through activation of RAC1 and PAK1 signaling pathways. Subcellular localization studies indicate RILPL2 resides in the cytoplasm (cytosol), centrosome at the microtubule organizing center, and within cell projections such as cilia, highlighting its involvement in structurally and functionally diverse cellular compartments.