

Product datasheet

Recombinant human PIP5K3/PIKFYVE protein ab207977

[4 Images](#)

Description

Product name	Recombinant human PIP5K3/PIKFYVE protein
Biological activity	The specific activity of ab207977 was determined to be 110 nmol/min/mg
Purity	> 70 % Densitometry. Affinity purified.
Expression system	Baculovirus infected Sf9 cells
Accession	Q9Y2I7
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Predicted molecular weight	110 kDa including tags
Amino acids	1400 to 2098
Tags	GST tag N-Terminus
Additional sequence information	NM_015040

Specifications

Our **[Abpromise guarantee](#)** covers the use of **ab207977** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE Functional Studies
Form	Liquid
Additional notes	This product was previously labelled as PIP5K3

Preparation and Storage

Stability and Storage	Shipped on Dry Ice. Upon delivery aliquot. Store at -80°C. Avoid freeze / thaw cycle.
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pH: 7.50

Constituents: 0.79% Tris HCl, 0.87% Sodium chloride, 0.31% Glutathione, 0.003% EDTA, 0.004% DTT, 0.002% PMSF, 25% Glycerol (glycerin, glycerine)

This product is an active protein and may elicit a biological response in vivo, handle with caution.

General Info

Function

The PI(3,5)P2 regulatory complex regulates both the synthesis and turnover of phosphatidylinositol 3,5-bisphosphate (PtdIns(3,5)P2). Catalyzes the phosphorylation of phosphatidylinositol 3-phosphate on the fifth hydroxyl of the myo-inositol ring, to form phosphatidylinositol 3,5-bisphosphate. Required for endocytic-vacuolar pathway and nuclear migration. Plays a role in the biogenesis of endosome carrier vesicles (ECV)/ multivesicular bodies (MVB) transport intermediates from early endosomes.

Involvement in disease

Corneal dystrophy, fleck

Sequence similarities

Contains 1 DEP domain.

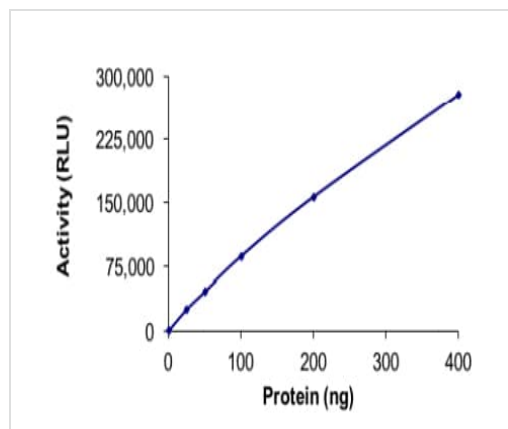
Contains 1 FYVE-type zinc finger.

Contains 1 PIPK domain.

Cellular localization

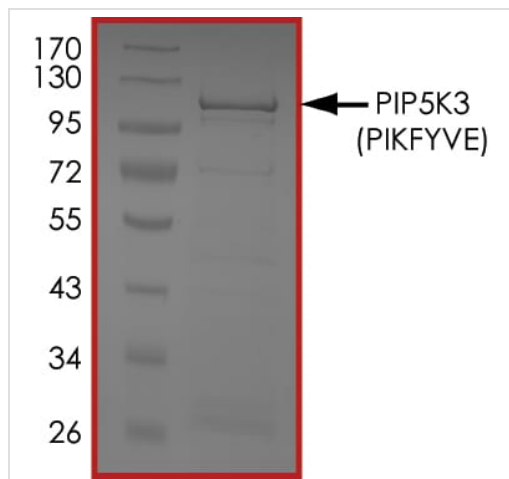
Endosome membrane. Mainly associated with membranes of the late endocytic pathway.

Images



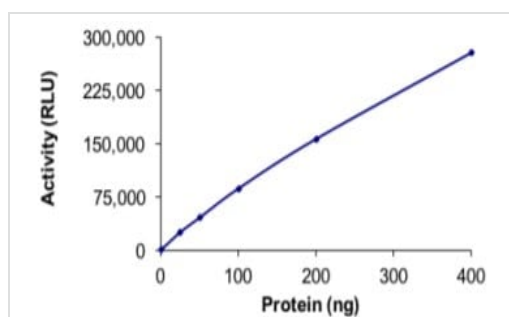
The specific activity of PIP5K3/PIKFYVE (ab207977) was determined to be 110 nmol/min/mg as per activity assay protocol

Functional Studies - Recombinant human
PIP5K3/PIKFYVE protein (ab207977)



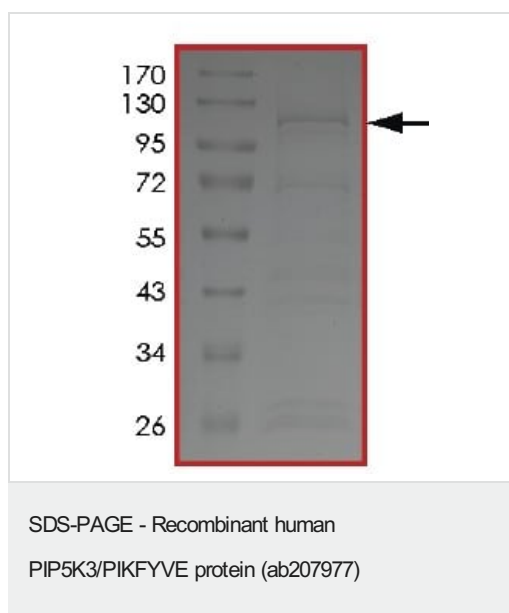
SDS PAGE analysis of ab207977

SDS-PAGE - Recombinant human
PIP5K3/PIKFYVE protein (ab207977)



Sample Kinase Activity Plot.

Functional Studies - Recombinant human
PIP5K3/PIKFYVE protein (ab207977)



SDS-PAGE showing ab207977

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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