

Recombinant Mouse Pdcd6ip Protein, Myc/DDK-tagged

Cat. No. Pdcd6ip-4736M **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Purified recombinant protein of mouse full-length programmed cell death 6 interacting protein (Pdcd6ip), with C-terminal MYC/DDK tag, expressed in HEK293T cells.

Species

Mouse

Source

HEK293

Description

Multifunctional protein involved in endocytosis, multivesicular body biogenesis, membrane repair, cytokinesis, apoptosis and maintenance of tight junction integrity. Class E VPS protein involved in concentration and sorting of cargo proteins of the multivesicular body (MVB) for incorporation into intraluminal vesicles (ILVs) that are generated by invagination and scission from the limiting membrane of the endosome. Binds to the phospholipid lysobisphosphatidic acid (LBPA) which is abundant in MVBs internal membranes. The MVB pathway requires the sequential function of ESCRT-O, -I, -II and -III complexes. The ESCRT machinery also functions in topologically equivalent membrane fission events, such as the terminal stages of cytokinesis. Adapter for a subset of ESCRT-III proteins, such as CHMP4, to function at distinct membranes. Required for completion of cytokinesis. May play a role in the regulation of both apoptosis and cell proliferation. Regulates exosome biogenesis in concert with SDC1/4 and SDCBP. By interacting with F-actin, PARD3 and TJP1 secures the proper assembly and positioning of actomyosin-tight junction complex at the apical sides of adjacent epithelial cells that defines a spatial membrane domain essential for the maintenance of epithelial cell polarity and barrier

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Molecular Mass	96.8 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Pdcd6ip programmed cell death 6 interacting protein [Mus musculus (house mouse)]
Official Symbol	Pdcd6ip
Synonyms	PDCD6IP; programmed cell death 6 interacting protein; programmed cell death 6-interacting protein; E2f1-inducible protein; Alg2-interacting protein 1; Alg2-interacting protein X; ALG-2-interacting protein 1; ALG-2-interacting protein X; Aip1; Alix; Eig2; C76364; AI480591; AW544830; mKIAA1375
Gene ID	18571
mRNA Refseq	NM_001164677
Protein Refseq	NP_001158149
UniProt ID	Q9WU78

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