

# Recombinant human PARD6B protein

Catalog Number: ATGP1840

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-372aa

### UniProt No.

Q9BYG5

### NCBI Accession No.

NP\_115910

### Alternative Names

Partitioning defective 6 homolog beta, PAR6B

## PRODUCT SPECIFICATION

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### Molecular Weight

43.6 kDa (395aa)

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 2M urea, 20% glycerol, 0.2M NaCl

### Purity

> 85% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE, Denatured

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

Partitioning defective 6 homolog beta, also known as PARD6B, is a member of the PAR6 family and encodes a protein with a PSD95/Disks-large/ZO1 (PDZ) domain, an OPR domain and a semi-Cdc42/Rac interactive binding (CRIB) domain. Cellular asymmetry is critical for the development of multicellular organisms. PARD (partitioning-defective) proteins play important roles in asymmetric cell division and polarized growth, whereas Cdc42 and Rac mediate establishment of cell growth and polarity and contribute to oncogenic transformation by Ras. It is expressed in pancreas and in both adult and fetal kidney, and is weakly expressed in placenta and lung.

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Recombinant human PARD6B protein, fused to His-tag at N-terminus, was expressed in E. coli.

## Amino acid Sequence

MGSSHHHHHHH SSGLVPRGSH MGSMNRSRHR GAGSGCLGTM EVKSKFGAEF RRFSLEKSKP GKFEFYGLL QHVHKIPNVD  
VLVGYADIHG DLLPINDDN YHKAVSTANP LLRIFIQKKE EADYSAFGTD TLIKKKNVLT NVLRPDNHRK KPHIVISMPQ  
DFRPVSSIID VDILPETHRR VRLYKYGTEK PLGFYIRDGS SVRVTPHGLE KVPGIFISRL VPGGLAQSTG LLAVNDEVLE  
VNGIEVSGKS LDQVTDMMIA NSRNLIITVR PANQRNNVVR NSRTSGSSGQ STDNSLLGYP QQIEPSFEPE DEDSEEDDII  
IEDNGVPQQI PKAVPNTESL ESLTQIELSF ESGQNGFIPS NEVSLAAIAS SSNTEFETHA PDQKLEEDG TIITL

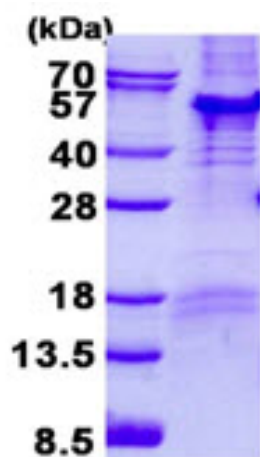
## General References

Joberty G., et al. (2000) Nat Cell Biol. 2:531-539.

Qiu R G., et al. (2000) Curr Biol. 10:697-707.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)