

Recombinant Human PARD6B, His-tagged

Cat. No. PARD6B-7058H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PARD6B protein, fused to His-tag at N-terminus, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	1-372aa
Description	Partitioning defective 6 homolog beta, also known as PARD6B, is a member of the PAR6 family and encodes a protein with a PSD95/Discs-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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 2M Urea, 20% glycerol, 0.2M NaCl
Molecular Mass	43.6 kDa (395aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMNRSHRH GAGSGCLGTM EVKSKFGAEF

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

RRFSLERSKP GKFEFYGLL QHVKIPNVD VLVGYADHIG 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 PDQKLLEEDG TIITL

Purity >85% by SDS - PAGE

Applications SDS-PAGE

Storage Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Concentration 0.5 mg/ml

GENE INFORMATION

Gene Name [PARD6B](#) [par-6 partitioning defective 6 homolog beta \(C. elegans\)](#) [[Homo sapiens](#)]

Official Symbol PARD6B

Synonyms PARD6B; par-6 partitioning defective 6 homolog beta (C. elegans); par 6 (partitioning defective 6, C.elegans) homolog beta; partitioning defective 6 homolog beta; PAR 6B; PAR-6 beta; PAR6B;

Gene ID [84612](#)

mRNA Refseq [NM_032521](#)

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Protein Refseq	NP_115910
MIM	608975
UniProt ID	Q9BYG5
Chromosome Location	20q13.13
Pathway	Cell junction organization, organism-specific biosystem; Cell-Cell communication, organism-specific biosystem; Cell-cell junction organization, organism-specific biosystem; Endocytosis, organism-specific biosystem; Endocytosis, conserved biosystem; Tight junction, organism-specific biosystem; Tight junction, conserved biosystem;
Function	protein binding;

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