

# Recombinant human RACK1 protein

Catalog Number: ATGP1375

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-317aa

### UniProt No.

P63244

### NCBI Accession No.

NP\_006089.1

### Alternative Names

Guanine nucleotide-binding protein subunit beta-2-like 1, Guanine nucleotide-binding protein subunit beta-2-like 1, Gnb2-rs1, H12.3, HLC-7, PIG21, RACK1

## PRODUCT SPECIFICATION

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### Molecular Weight

37.2 kDa (337aa) confirmed by MALDI-TOF

### Concentration

0.25mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 50% glycerol, 0.2M NaCl, 5mM DTT

### Purity

> 95% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### 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

GNB2L1 was originally identified as an anchoring protein for protein kinase C beta (PKCbeta), which it stabilises in the active state and anchors to membranes or functional sites. However, evidence has accumulated to support a central role of GNB2L1 in critical biological responses. In addition to binding specifically to the active form of PKCbeta isoforms, GNB2L1 also interacts with several other important signaling proteins including the Src kinase family, integrin beta1, integrin beta2, integrin beta3 and integrin beta5, beta-spectrin and dynamin,

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RasGAP, the androgen receptor, insulin-like growth factor 1 receptor (IGF-1r), Epstein-Barr virus trans-activator protein BZLF1, p73 and pRB. GNB2L1 is ubiquitously expressed in the tissues of higher mammals and humans including brain, liver, and spleen. Recombinant human GNB2L1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

## Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH> MTEQMTLRGT LKGHNGWVTQ IATTPQFPDM ILSASRDKI IMWKLTRDET  
NYGIPQRALR GHSHFVSDVV ISSDGQFALS GSWDGTLRRLW DLTTGTTTRR FVGHTKDVLS VAFSSDNRQI VSGSRDKTIK  
LWNTLGVCYK TVQDESHSEW VSCVRFSPNS SNPIIVSCGW DKLVKVNLA NCKLKTNHIG HTGYLNTVTV SPDGSLCASG  
GKDGQAMLWD LNEGKHLYTL DGGDIINALC FSPNRYWLCA ATGPSIKIWD LEGKIIVDEL KQEVISTSSK AEPPQCTSLA  
WSADGQTLFA GYTDNLVRVW QVTIGTR

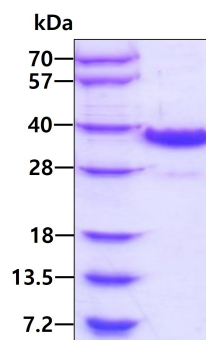
## General References

Chang B.Y., et al. (1998) Mol. Cell. Biol. 18:3245-3256

Chang B.Y., et al. (2001) J. Biol. Chem. 276:20346-20356

## DATA

### SDS-PAGE



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.