

# Recombinant human KIAA0101/PCLAF protein

Catalog Number: ATGP2304

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-111aa

### UniProt No.

Q15004

### NCBI Accession No.

NP\_055551.1

### Alternative Names

PCNA clamp associated factor, PAF15, PAF, p15(PAF), OEATC-1, OEATC, NS5ATP9, L5, KIAA0101

## PRODUCT SPECIFICATION

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### Molecular Weight

14.4 kDa (134aa) confirmed by MALDI-TOF

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT

### Purity

> 90% 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

KIAA0101 is a PCNA-binding protein that acts as a regulator of DNA repair during DNA replication. Following DNA damage, the interaction with PCNA is disrupted, facilitating the interaction between monoubiquitinated PCNA and the translesion DNA synthesis DNA polymerase eta (POLH) at stalled replisomes, facilitating the bypass of replication-fork-blocking lesions. This protein also acts as a regulator of centrosome number. Recombinant human KIAA0101 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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## Amino acid Sequence

<MGSSHHHHH SSGLVPRGSH MGS>MVRTKAD SVPGTyrKVV AARAPRKVLG SSTSATNSTS VSSRKAENKY  
AGGNPVCV RP TPKWQKGIGE FFRLSPKDSE KENQIPEEAG SSGLGKAKRK ACPLQPDHTN DEKE

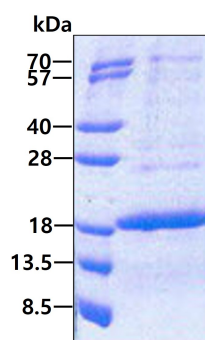
## General References

Kais Z., et al (2011). Mol. Cancer Res. 9:1091-1099  
Povlsen L.K., et al (2012). Nat. Cell Biol. 14:1089-1098

## DATA

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### SDS-PAGE



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