

# Human PKR protein, His tag

**Cat. No. GTX00113-pro**

<b>Application</b>	Functional Assay
<b>Species</b>	Human

**Package**  
10 µg

## APPLICATION

### Application Note

Protein Kinase R (PKR) is activated by double-stranded RNA (dsRNA), the synthesis of which is caused virally. PKR can also be activated by the protein PACT or by heparin. It plays a key role in the innate immune response to viral infection and is also involved in the regulation of signal transduction, apoptosis, cell proliferation and differentiation. Besides, Cyclin Dependent Kinase 1 (CDK1) has been identified as an interactor of PKR, thus a binding ELISA assay was conducted to detect the interaction of recombinant human PKR and recombinant human CDK1. Briefly, PKR were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to CDK1-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-PKR pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50 µl stop solution to the wells and read at 450nm immediately. The binding activity of PKR and CDK1 was in a dose dependent manner.

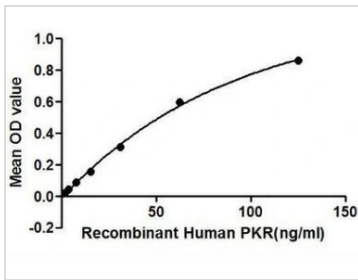
**Observed MW** 32 kDa.

## PROPERTIES

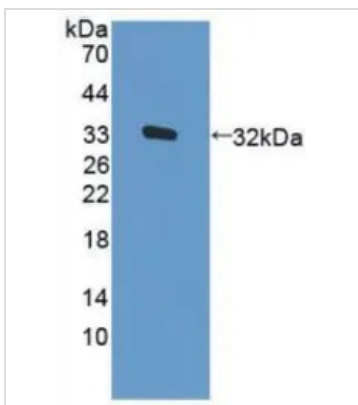
<b>Form</b>	Lyophilized powder
<b>Buffer</b>	Reconstitute with 20mM Tris and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris, 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose.
<b>Preservative</b>	ProClin 300
<b>Storage</b>	For short-term storage (1-2 weeks), store at 4°C. For long-term storage, store at -20°C or below. After reconstitution, keep as concentrated solution. Avoid freeze-thaw cycles.
<b>Region/Sequence</b>	N-terminal His-Tag; Ser224~Ile502 (NP_001129123.1)
<b>Expression System</b>	E. coli
<b>Purity</b>	> 80%
<b>Endotoxin</b>	< 1 EU/µg
<b>Conjugation</b>	Unconjugated
<b>Note</b>	For laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.



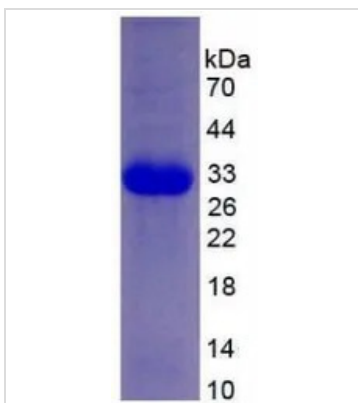
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**DATA IMAGES**

**GTx00113-pro Functional Assay Image**

Functional ELISA analysis of GTx00113-pro Human PKR protein which can bind immobilized CDK1 protein.


**GTx00113-pro Image**

WB analysis of GTx00113-pro Human PKR protein.


**GTx00113-pro Image**

SDS-PAGE analysis of GTx00113-pro Human PKR protein.



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