RPA520Hu01 10μg Recombinant Protein Kinase R (PKR) Organism Species: Homo sapiens (Human) *Instruction manual*

FOR IN VITRO USE AND RESEARCH USE ONLY NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

12th Edition (Revised in Aug, 2016)

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[PROPERTIES]

Source: Prokaryotic expression.

Host: E. coli

Residues: Ser224~lle502

Tags: N-terminal His-Tag

Tissue Specificity: Brain, Prostate Gland Cancer.

Subcellular Location: Nucleus. Cytoplasm, perinuclear region.

Purity: >80%

Traits: Freeze-dried powder

Buffer formulation: 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5%Trehalose and Proclin300.

Original Concentration: 200ug/mL

Applications: SDS-PAGE; WB; ELISA; IP; CoIP; Purification; Amine Reactive Labeling.

(May be suitable for use in other assays to be determined by the end user.)

Predicted isoelectric point: 8.9

Predicted Molecular Mass: 35.8kDa

Accurate Molecular Mass: 32kDa as determined by SDS-PAGE reducing conditions. **Phenomenon explanation:**

The possible reasons that the actual band size differs from the predicted are as follows:

- 1. Splice variants: Alternative splicing may create different sized proteins from the same gene.
- 2. Relative charge: The composition of amino acids may affects the charge of the protein.
- 3. Post-translational modification: Phosphorylation, glycosylation, methylation etc.
- 4. Post-translation cleavage: Many proteins are synthesized as pro-proteins, and then cleaved to give the active form.
- 5. Polymerization of the target protein: Dimerization, multimerization etc.

[<u>USAGE</u>]

Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.



[STORAGE AND STABILITY]

Storage: Avoid repeated freeze/thaw cycles.

Store at 2-8°C for one month.

Aliquot and store at -80°C for 12 months.

Stability Test: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

[<u>SEQUENCE</u>]

SSSLLMN GLRNNQRKAK RSLAPRFDLP DMKETKYTVD KRFGMDFKEI ELIGSGGFGQ VFKAKHRIDG KTYVIKRVKY NNEKAEREVK ALAKLDHVNI VHYNGCWDGF DYDPETSDDS LESSDYDPEN SKNSSRSKTK CLFIQMEFCD KGTLEQWIEK RRGEKLDKVL ALELFEQITK GVDYIHSKKL IHRDLKPSNI FLVDTKQVKI GDFGLVTSLK NDGKRTRSKG TLRYMSPEQI SSQDYGKEVD LYALGLILAE LLHVCDTAFE TSKFFTDLRD GI

[IDENTIFICATION]

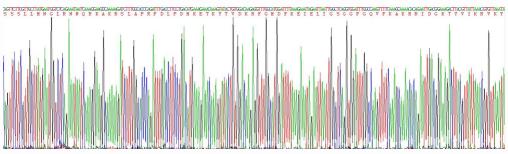


Figure 1. Gene Sequencing (Extract)

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	kDa 70
	44
	33
Cited of	26
	22
	18
	14
	10

Figure 2. SDS-PAGE