



TEL:4006-871-227 Web:www.ybio.net Email:shybio@126.com

YBA937Ra01 50μg

Recombinant Nephrin (NPHN)

Organism Species: *Rattus norvegicus* (Rat)

*Instruction
manual*

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

10th Edition (Revised in Jan,
2014)

[PROPERTIES]

Residues: Pro39~Gly106 linked with
KRSECVIVRH

Tags: Two N-terminal Tags, His-tag and GST-tag

Accession: Q9R044

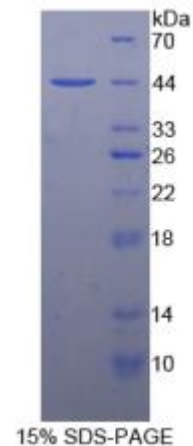
Host: *E. coli*

Subcellular Location: Cell membrane; Single-pass type I
membrane protein.

Purity: >95%

Endotoxin Level: <1.0EU per 1 μg (determined by the LAL
method).

Formulation: Supplied as lyophilized form in
20mM Tris, 500mM NaCl, pH8.0, containing 1mM
EDTA, 1mM DTT, 0.01% sarcosyl, 5% trehalose, and



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

Predicted isoelectric point:

9.8 Predicted Molecular Mass:

38.4kDa



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Accurate Molecular Mass: 41kDa as determined by SDS-PAGE reducing conditions. Applications: SDS-PAGE; WB; ELISA; IP.

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

Note:

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.

[USAGE]

Reconstitute in ddH₂O.

[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 of the target protein. 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. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.

[SEQUENCES]

The sequence of the target protein is listed below.

PV PTS A PR G FWA LSE N LTAV EG TTV KLWC G VR AP GS V VQ WAK DG LLL GP N PK
MPGFPRYSLE GDRAKGEFHL LIEACDLSDD AEYECQVGRS ELGPELVSPK VILS



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[REFERENCES]

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4. Hirabayashi S., *et al.* (2005) *Lab. Invest.* 85:1528-1543.