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

YBH757Ra01 10µq **Recombinant Klotho (KL) Organism Species: Rattus norvegicus (Rat)** Instruction manual

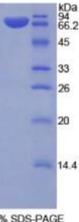
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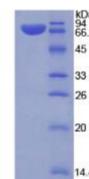
10th Edition (Revised in Jan, 2014)

[PROPERTIES]

Residues: Leu517~Leu956 Tags: Two N-terminal Tags, His-tag and GST-tag Accession: Q9Z2Y9 Host: E. coli Subcellular Location: Cell membrane; Secreted. Singlepass type I membrane protein. **Purity: >95%** Endotoxin Level: <1.0EU per 1µg (determined by the LAL method). Formulation: Supplied as lyophilized form in 20mM Tris, 15% SDS-PAGE 500mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% trehalose, and preservative. Predicted isoelectric point: 6.4 Predicted Molecular Mass: 83.5kDa Accurate Molecular Mass: 80kDa 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.) The possible reasons that the actual band size differs from the predicted are as follows: 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.







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[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.

[<u>SEQUENCES</u>]

The sequence of the target protein is listed below.

LEGT FPCDFAWGVV DNYIQVDPTL SQFTDPNVYL WDVHHSKRLI KVDGVVAKKR KPYCVDFSAI RPQITLLREM RVTHFRFSLD WALILPLGNQ TQVNRTVLHF YRCMVSELVH ANITPVVALW QPATPHQGLP HALAKHGAWE NPHTALAFAD YANLCFEELG HWVKFWITIN EPNSRNMTYR AGHHLLKAHA LAWHLYDDKF RAAQKGKISI ALQVDWIEPA CPFSQKDKEV AERVLEFDVG WLAEPIFGSG DYPHVMREWL NQKNNFLLPY FTEDEKKLIR GSFDFLALSH YTTILVDWEK EDPIKYNDYL EVQEMTDITW LNSPNQVAVV PWGLRKALNW LRFKYGDLPM FVTANGIDDD PHAEQDSLRM YYIKNYVNEA LKAYVLDGIN LCGYFAYSLS DRSVPKSGFY RYAANQFEPK PSIKHYRKII DNNGFL

[REFERENCES]

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- 2. Aizawa H., et al. (1998) Biochem. Biophys. Res. Commun. 249:865-871.
- 3. Kato Y., et al. (2000) Biochem. Biophys. Res. Commun. 267:597-602.
- 4. Nagai R., et al. (2000) Cell. Mol. Life Sci. 57:738-746.