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YB93195Ra01
Collagen Type III Alpha 1 (COL3a1)
Organism: Rattus norvegicus (Rat)
Instruction manual

FOR IN VITRO USE AND RESEARCH USE ONLY
NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES

4th Edition (Revised in August, 2012)

[DESCRIPTION]

Protein Names: Collagen Type III Alpha 1

Synonyms: COL3a1

Species: Rat

Size: 100µg

Source: *Escherichia coli*-derived

Subcellular Location: Secreted, extracellular space, extracellular matrix.

[PROPERTIES]

Residues: Arg1171~Arg1435 (Accession # P13941), with N-terminal His-Tag.

Grade & Purity: >95%, 31 kDa as determined by SDS-PAGE reducing conditions.

Formulation: Supplied as liquid form in Phosphate buffered saline(PBS), pH 7.4.

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

Applications: SDS-PAGE; WB; ELISA; IP.

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

Predicted Molecular Mass: 31.2 kDa

Predicted isoelectric point: 6.6

[PREPARATION]

Reconstitute in sterile PBS, pH7.2-pH7.4.

[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



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calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.

[SEQUENCES]

The target protein is fused with N-terminal His-Tag, its sequence is listed below.

MGHHHHHSGSEFELRRQAC-RGSEGSPGHP GQPGPPGPPG APGPCCGGA AIAGVGGEKS GGFSPYYGDD PMDFKINTEE
IMSSLKSVNG QIESLISPDG SRKNPARNCR DLKFCHPELK SGEYWVDPNQ GCKMDAIKVF CNMETGETCI NASPMTVPRK
HWWTDAGAEK KHVWFGESMN GGFQFSYGNP DLPEDVLDVQ LAFLRLLSSR ASQNITYHCK NSIAYMDQAN GNVKKSLLKM
GSNEGEFKAE GNSKFTYTVL EDGCTKHTGE WSKTVFEYQT RKAMR