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YBB830Hu01 10µg

Recombinant Transglutaminase 2, Tissue (TGM2)
Organism Species: Homo sapiens (Human)

Instruction manual

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

9th Edition (Revised in Jul, 2013)

[PROPERTIES]

Residues: Metl~Ala687 (Accession # P21980),

with N-terminal His-Tag.

Host: *E. coli*Purity: >95%

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

Formulation: Supplied as lyophilized form in PBS, pH7.4, containing 1mM DTT, 5% trehalose,

0.1% sarcosyl and preservative.
Predicted isoelectric point: 5.3
Predicted Molecular Mass: 78.8kDa

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

Accurate Molecular Mass: 100kDa 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.

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5. Polymerization of the target protein: Dimerization, multimerization etc.

[USAGE]

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



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

MGHHHHHHSGSEF-MAEELVLERC DLELETNGRD HHTADLCREK LVVRRGQPFW

LTLHFEGRNY EASVDSLTFS VVTGPAPSQE AGTKARFPLR DAVEEGDWTA TVVDQQDCTL

SLQLTTPANA PIGLYRLSLE ASTGYQGSSF VLGHFILLFN AWCPADAVYL DSEEERQEYV

LTQQGFIYQG SAKFIKNIPWNFGQFEDGIL DICLILLDVN PKFLKNAGRD CSRRSSPVYV

GRV V S G M V N C ND D Q G V LL G R WD N N Y G D G V S PM S W I G S V D I LR RW K N H G C Q

RVKYGQCWVF AAVACTVLRC LGIPTRVVTN YNSAHDQNSN LLIEYFRNEF GEIQGDKSEM

IW N F H C W V E S WM T R P D L Q P G Y E G W Q A L D P T P Q E K S E G T Y C C G P V P V R A I K

EGDLSTKYDA PFVFAEVNAD VVDWIQQDDG SVHKSINRSL IVGLKISTKS VGRDEREDIT

HTYKYPEGSS EEREAFTRAN HLNKLAEKEE TGMAMRIRVG QSMNMGSDFD VFAHITNNTA

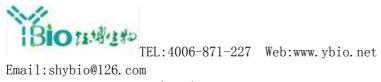
EEYVCRLLLC ARTVSYNGIL GPECGTKYLL NLNLEPFSEK SVPLCILYEK YRDCLTESNL

IKVRALLVEP VINSYLLAER DLYLENPEIK IRILGEPKQK RKLVAEVSLQ NPLPVALEGC

TFTVEGAGLT EEQKTVEIPD PVEAGEEVKV RMDLLPLHMG LHKLVVNFES DKLKAVKGFR

NVIIGPA

[REFERENCES]



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