

Transglutaminase 2, Tissue (TGM2) Recombinant Protein | TGM2 recombinant protein

Recombinant Transglutaminase 2, Tissue (TGM2)

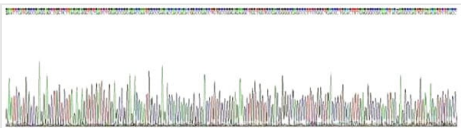
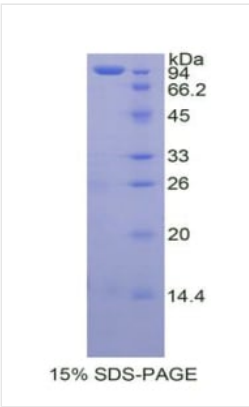
CATALOG # AAA134189	HOST E.coli	APPLICATIONS Western Blot, SDS-Page
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PRODUCT SYNONYMS

Transglutaminase 2; Tissue (TGM2); Recombinant Transglutaminase 2; TGM2 recombinant protein

PRODUCT SPECIFICATIONS

Host	E.coli
Purity/Purification	> 80%
Form/Format	Freeze-dried powder; PBS, pH7.4, containing 0.01% Sarcosyl, 5% Trehalose.
Concentration	Original Concentration: 150ug/mL (varies by lot)
Applicable Applications for TGM2 recombinant protein	WB (Western Blot), SDS-PAGE, Immunogen, Positive Control
Source	Prokaryotic expression
Residues	Met1~Ala687
Tags	N-terminal His Tag
Subcellular Location	Secreted
Predicted isoelectric point	4.8
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
Usage	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Preparation and Storage	Storage: Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree 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 degree 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.



Gene Sequence
Gene Sequencing (extract)

SDS-PAGE

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MAFFIVLFRCDLEIFTNGRDHHTADICREKLVVRRGQPFWLTTHFEGRNV  
EASVDSLTFSVVTGPAPSQEAGTKARFPLRDAVEEGDWTATVVDQDCTL  
SLQLTTPANAIGLYRLSLEASTGYGQSSFVLGHFILLFNAWCPADAVYL  
DSEERQEQYVLTQGGFIYQGSAKFIKNIPHNFGQFEDGILDICLILLDVN  
PKFLKNAGRDCSRSSSPVYVGRVSGMVNKNDDQGVLLGRWNNYGDGVS  
PMSWIGSVDI LRRKKNHGCQ RVKYGQCWVFAAVACTVLRC LGIPTRVVTN  
YNSAHDQNSNLLIEYFRNEFGEIQGDKSEMIMNFHCWVESWMTRPOLPG  
YEGWALDPI PQEKSEGYTCGPPVPVRAIKEGDLSTKYDA PFVFAEVNAD  
VVDWIQQDDG SVHKSNRSLIVGLKISTKS VGRDEREDIT HTYKYPEGSS  
EEREAFTANHLNKLAEKEETGMAMRIRVGQSMNMGSDFDVFAHITNNTA  
EEVVCRLLLCARTVSYNGILGPECCTKYLLNLNLEPFSEKSVPLCILYEK  
YRDCLTESNLIKVRALLVEPVINSYLLAERDLYLENPEIKIRILGEPKQK  
RKLVAEVSLLQNPVPVLEGC TFTVEGAGLT EEQKTVEIPDPVEAGEEVKV  
RMDLLPLHMG LHKLVVNFESDKLKAVKGFR NVIIIGA
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Sequence

NCBI AND UNIPROT INFORMATION

NCBI GI #	39777597
NCBI GeneID	7052
NCBI Accession #	NP_004604.2
NCBI GenBank Nucleotide #	NM_004613.2
UniProt Accession #	P21980; Q16436; Q6B838; Q9BTN7; Q9UH35; E1P5V9
Molecular Weight	Predicted Molecular Mass: 78.6kDa Accurate Molecular Mass: 100kDa as determined by SDS-PAGE reducing conditions.
NCBI Official Full Name	protein-glutamine gamma-glutamyltransferase 2 isoform a
NCBI Official Synonym Full Names	transglutaminase 2
NCBI Official Symbol	TGM2
NCBI Official Synonym Symbols	TG2; TGC; GNAH; HEL-S-45; G-ALPHA-h
NCBI Protein Information	protein-glutamine gamma-glutamyltransferase 2; TG(C); TGase C; TGase H; TGase-2; TGase-H; transglutaminase C; transglutaminase H; transglutaminase-2; tissue transglutaminase; epididymis secretory protein Li 45; protein-glutamine-gamma-glutamyltransferase; C polypeptide, protein-glutamine-gamma-glutamyltransferase
UniProt Protein Name	Protein-glutamine gamma-glutamyltransferase 2
UniProt Gene Name	TGM2
UniProt Synonym Gene Names	TG(C); TGC; TGase C; TGase H; TGase-2
UniProt Entry Name	TGM2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

