

Product datasheet for TP316216

Thyroglobulin (TG) (NM_003235) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human thyroglobulin (TG), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA	>RC216216 representing NM_003235
Clone or AA Sequence:	Red=Cloning site Green=Tags(s)

MALVLEIFTLLASICWVSANIFEYQVDAQPLRPCQLQRETAFLKQADYVPQCAEDGSFQTVQCQNDGRSC
WCVGANGSEVLGSRQPGRPVACLQKQKQILLSGYINSDTSYLPQCQDSGDYAPVQCDVQQVQCWC
VDAEGMEVYGRQLGRPKRCPRSCEIRNRLLHGVDKSPQCSEAEGFMPVQCKFVNTTDMIFDLVHS
YNRFPDAFVTFSSFQRRFPEVSGYCHCADSQGRELAETGLELLLEIYDTIFAGLDLPSTFTETTLRIL
QRRFLAVQSVISGRFRCPTKCEVERFTATSFHYPYVPSRRNGDYQAVQCQTEGPCWCVDAQGKEMHGTR
QQGEPPSCAEGQSCASERQQALSRLYFGTSGYFSQHDLFSSPEKRWASPRVARFATSCPPTIKELFVDSG
LLRPMVEGQSQQFSVSENLLKEAIRAIFPSRGLARLALQFTTNPKRLQQLNLFGGKFLVNVGQFNLSGALG
TRGTNFNSQFFQQLGLASFLNGGRQEDLAKPLSVGLDSNSSTGTPEAAKKGDMNKPTVGSFGFEINLQE
NQNALKFLASLLELPEFLLFLQHAISVPEDVARDLGDVMTVLSSQTCEQTPERLFPVPSCTTEGSYEDVQ
CFSGECWCVNSWGKELPGSRVGGQPRCPTDCEKQRARMQSLMGSQPAGSTLFVPACTSEGHFLPVQCFN
SECYCVDAEGQAIPGTRSAIGKPKKPTPCQLQSEQAFLRTVQALLSNSSMLPTLSDTYIPQCSTDGQWR
QVQCNGPPEQVFELYQRWEAQNKGDLPKALLKIMSYREAAAGNLSLFIQSLYEAGQQDVPVLSQYP
SLQDVPLAALLEGKRPQPRENILLEPYLFWQILNGQLSQYPGSYSDFTPLAHFDLRNCWCVDEAGQELEG
MRSEPSKLPCTPGSCCEEAKLRVLQFIRETEEIVSASNSSRFPLGESFLVAKGIRLRNEDLGLPPLFPPRE
AFAEQFLRGSDYAIRLAAQSTLSFYQRRRFPDDSDAGASALLRSGPYMPQCDAFGSWEVPVQCHAGTGHCW
CVDEKGGFIPGSLTARSLQIPQCPTTCEKSRTSGLLSSWKQARSQENPSPKDLFVPACLETGEYARLQAS
GAGTWCVDPASGEELRPGSSSAQCPSLNVLKSGLSRRVSPGYVPACRAEDGGFSPVQCDQAQGSWCW
VMDSGEEVPGTRVTGGQPACESPRCLPFNASEVGGTILCETISGPTGSAMQQCQLLRCRQGSWSVFPFG
PLICSLESGRWESQLPQPRACRQPLWQTIQTHGFLQLLPPGKMCADYADLLQTFQVFILDELDTARGF
CQIQVKTFGLVSI PVCNNSVQVGLTRERLGVNVTWKSRLIEDIPVASLPDLHDIERALVKGKDLLGRFT
DLIQSGSFQLHLDKTFPAETIRFLQGDHFGTSPRTWFGCSEGFYQVLTSEASQDGLGCVKCEPGSYSQD
EECIPCPVGFYQEQAGSLACVPCPVGRRTISAGAFSQTHCVTDCQRNEAGLQCDQNGQYRASQKDRGSGK
AFCVDGEGRRLPWWETEAPLEDSQCLMMQKFEKVPESKVFIDANAPVAVRSKVPDSEFPVMQCLTDCTED
EACSFVTSTTEPEISCDFYAWTSDNVACMTSDQKRDALGNSKATSGLSLRCQVKVRSRSHGQDSPAAYLKK
GQGSTTLQKRFPTGFQNMLSGLYNPIVFSASGANLTD AHLFCLLACDRDLCCDGFVLTQVQGGAIICG
LLSSPSVLLCNVKDWM DPSEAWANATCPGVTYDQESHQVILRLGDQEFIKSLTPLEGTQDFTNFQQVYL



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WKDSDMGSRPESMGCRKDTVPRPASPTTEAGLTTELFSPVDLNQVIVNGNQSLSSQKHWLKFHLFSAQQAN
 LWCLSRCVQEHSFCQLAEITESASLYFTCTLYPEAQVCCDIMESNAQGCRLLPQMPKALFRKKVILEDK
 VKNFYTRLPFQKLMGISIRNKVPMSEKISNGFFECERRCDADPCCTGFGFLNVSQKGGEVTCCLTNSL
 GIQMCSEENGAWRILDCGSPDIEVHTYPFGWYQKPIAQNNAPSFCLVPLSLTEKVSLSWQSLALSS
 VVDPSIRHFDVAHVSTAATSNFSAVRDLCLSECSQHEACLITLQTQPGAVRCMFYADTQSCTHSLQGG
 NCRLLLREEATHIYRKPGISLLSYEASVPSVPISTHGRLGRSQAIQVGTSWKQVDQFLGVPYAAPPLAE
 RRFQAPEPLNWTGSWDASKPRASCWQPGTRTSTSPGVSEDCLYLNVFIPQNVAPNASVLVFFHNTMDREE
 SEGWPAIDGSFLAAVGNLIVVTASYRVGVFGFLSSGSGEVSGNWGLLDQVAALTWVQTHIRGFGGDP
 SLAADRGGADVASHLLTARATNSQLFRRAVLMGGSSALSPAAVISHERAQQQAIALAKEVSCPMSSSQEV
 VSCLRQKPANVLNDAQTKLLAVSGPFHYWGPVIDGHFLREPPARALKRSLWVEVDLLIGSSQDDGLINRA
 KAVKQFEESRGRSSKTAQALQNSLGGEDSDARVEAAATWYYSLEHSTDDYASFSRALENATRDYFII
 CPIIDMASAWAKRARGNVFMYHAPENYGHGSLELLADVQFALGLPFYPAYEGQFSLEEKSLSLKIMQYFS
 HFIRSGNPYPYEFYSRKVPFATPWPDFVPRAGGENYKEFSELLPNRQGLKKADCSFWSKYISSLKTSAD
 GAKGGQSAESEEELTAGSGLREDLLSLQEPGSKTYSK

SGPTRRRLEQKLISEEDLAANDILDYKDDDDKV

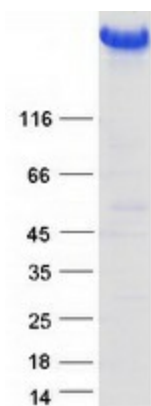
Tag:	C-Myc/DDK
Predicted MW:	302.7 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_003226
Locus ID:	7038
UniProt ID:	P01266
RefSeq Size:	8453
Cytogenetics:	8q24.22
RefSeq ORF:	8304
Synonyms:	AITD3; TGN

Summary: Thyroglobulin (Tg) is a glycoprotein homodimer produced predominantly by the thyroid gland. It acts as a substrate for the synthesis of thyroxine and triiodothyronine as well as the storage of the inactive forms of thyroid hormone and iodine. Thyroglobulin is secreted from the endoplasmic reticulum to its site of iodination, and subsequent thyroxine biosynthesis, in the follicular lumen. Mutations in this gene cause thyroid dysmorphogenesis, manifested as goiter, and are associated with moderate to severe congenital hypothyroidism. Polymorphisms in this gene are associated with susceptibility to autoimmune thyroid diseases (AITD) such as Graves disease and Hashimoto thyroiditis. [provided by RefSeq, Nov 2009]

Protein Families: Druggable Genome

Protein Pathways: Autoimmune thyroid disease

Product images:



Coomassie blue staining of purified TG protein (Cat# TP316216). The protein was produced from HEK293T cells transfected with TG cDNA clone (Cat# [RC216216]) using MegaTran 2.0 (Cat# [TT210002]).