

Recombinant Human TPO Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. TPO-561H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	TPO MS Standard C13 and N15-labeled recombinant protein (NP_000538) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a membrane-bound glycoprotein. The encoded protein acts as an enzyme and plays a central role in thyroid gland function. The protein functions in the iodination of tyrosine residues in thyroglobulin and phenoxy-ester formation between pairs of iodinated tyrosines to generate the thyroid hormones, thyroxine and triiodothyronine. Mutations in this gene are associated with several disorders of thyroid hormonogenesis, including congenital hypothyroidism, congenital goiter, and thyroid hormone organification defect IIA. Multiple transcript variants encoding distinct isoforms have been identified for this gene, but the full-length nature of some variants has not been determined.
Molecular Mass	102.9 kDa
AA Sequence	MRALAVLSVTLVMACTEAFPPFISRGKELLWGKPEESRVSSVLEESKRLVDTAMYAT MQRNLKKRGILSAAQLLSFSKLPEPTSGVIARAAEIMETSIQAMKRKVNLTQQSQHP TDALSEDLLSIANMSGCLPYMLPPKCPNTCLANKYRPITGACNNRDHPRWGASNTA LARWLPPVYEDGFSQPRGWNPGFLYNGFPLPPVREVTRHVIQVSNEVVTDDDRYS

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

DLLMAWGQYIDHDIAFTPQSTSKAAFGGGADCQMTCENQNPCFPIQLPEEARPAAG
 TACLPFYRSSAACGTGDQGALFGNLSTANPRQQMNGLTSTFLDASTVYGSSPALER
 QLRNWTSAEGLLRVHARLRDSGRAYLPFVPPRAPAACAPEPGIPGETRGPCFLAGD
 GRASEVPSLTALHTLWLREHNRLAAALKALNAHWSADAVYQEARKVVGALHQIITLR
 DYIPRILGPEAFQQYVGPYEGYDSTANPTVSNVFSTAAFRFGHATIHPLVRRLDASF
 QEHPDLPLGLWLHQAFFSPWTLLRGGGLDPLIRGLLARPAKLQVQDQLMNEELTERL
 FVLSNSSTLDLASINLQGRGDHGLPGYNEWREFCGLPRLETPADLSTAIASRSVADKI
 LDLYKHPDNIDVWLGGLAENFLPRARTGPLFACLIGKQMKALRDGDWFWWENSHV
 FTDAQRRELEKHSLSRVICDNTGLTRVPMDAFQVGKFPEDFESCDSITGMNLEAWR
 ETFPQDDKCGFPESVENGDVHCEESGRRVLVYSCRHGYELQGREQLTCTQEGW
 DFQPPLCKDVNECADGAHPPCHASARCRNTKGGFQCLCADPYELGDDGRTCVDS
 GRLPRVTWISMSLAALLIGGFAGLTSTVICRWTRTGTGSTLPISSETGGGTPELRCGKH
 QAVGTSPQRAAAQDSEQESAGMEGRDTHRLPRALTRPLEQKLISEEDLAANDILDY
 KDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	TPO thyroid peroxidase [Homo sapiens (human)]
Official Symbol	TPO

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Synonyms	TPO; thyroid peroxidase; TPX; thyroperoxidase; thyroid microsomal antigen; MSA; TDH2A;
Gene ID	7173
mRNA Refseq	NM_000547
Protein Refseq	NP_000538
MIM	606765
UniProt ID	P07202
SDS-PAGE	