

Product datasheet for **TP701028**

Thyroid Peroxidase (TPO) (NM_000547) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of human thyroid peroxidase (TPO), transcript variant 1, His tag, secretory expressed in HEK cells, 20ug
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	A DNA sequence from TrueORF clone, RC210659, encoding human full-length TPO
Tag:	C-His
Predicted MW:	92.6 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 90% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	PBS, pH 7.4
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_000538
Locus ID:	7173
UniProt ID:	P07202
RefSeq Size:	3152
Cytogenetics:	2p25.3
RefSeq ORF:	2799
Synonyms:	MSA; TDH2A; TPX



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Summary:

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. [provided by RefSeq, May 2011]

Protein Families:

Druggable Genome, ES Cell Differentiation/IPS, Transmembrane

Protein Pathways:

Autoimmune thyroid disease, Cytokine-cytokine receptor interaction, Hematopoietic cell lineage, Jak-STAT signaling pathway, Metabolic pathways, Tyrosine metabolism

Product images: