

## Recombinant Human TPO antigen

### Product overview

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Catalog number	C-40-0076
Description	Recombinant human Thyroid Peroxidase (TPO) antigen with His tag. Predicted molecular weight: ~93 kDa.
Product host	HEK293 cells
Product formulation	Liquid
Product buffer solution	10 mM PBS, pH 7.4, 0.8 % NaCl, 0.02% KCl.
Shelf life and storage	3 years, storage at -70 °C or below. Repeated freeze/thaw cycles should be avoided.
Analyte description	TPO (Thyroid Peroxidase) is a key enzyme on the apical membrane of thyroid follicular cells, belonging to heme containing glycoproteins, and is highly expressed only in thyroid tissue. Anti-TPO Abs activate complement and antibody dependent cytotoxicity (ADCC) to destroy thyroid follicular cells, leading to hypothyroidism and causing thyroid diseases. For example, over 95% patients with Hashimoto's thyroiditis have anti-TPO Abs, while patients with Graves' disease have 70-80% anti-TPO Ab positivity. Anti-TPO Abs detection is of great significance for the detection and diagnosis of thyroid diseases.
Product concentration	N/A
Purity	>90%, SDS-PAGE
Antibodies tested	NA
Miscellaneous	N/A

