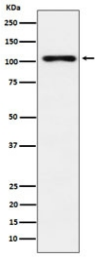
Thyroid Peroxidase Antibody / TPO [clone AFFI-20] (RQ5170)

Catalog No.	Formulation	Size
RQ5170	Antibody in PBS with 0.02% sodium azide, 50% glycerol and 0.4-0.5mg/ml BSA	100 ul

Bulk quote request

Availability	1-2 weeks
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	AFFI-20
Purity	Affinity purified
UniProt	P07202
Applications	Western blot: 1:500-1:2000
Limitations	This Thyroid Peroxidase antibody is available for research use only.



Western blot testing of human thyroid lysate with Thyroid Peroxidase antibody. Predicted molecular weight ~103 kDa but may be observed at higher molecular weights due to glycosylation.

Description

The TPO 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.

Application Notes

Optimal dilution of the Thyroid Peroxidase antibody should be determined by the researcher.

Immunogen

A synthetic peptide specific to human TPO / Thyroid peroxidase was used as the immunogen for the Thyroid Peroxidase antibody.

Storage

Store the Thyroid Peroxidase antibody at -20oC.

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