

Product datasheet

Biotin Anti-TPO antibody ab271257

2 Images

Overview

Product name	Biotin Anti-TPO antibody
Description	Biotin Rabbit polyclonal to TPO
Host species	Rabbit
Conjugation	Biotin
Tested applications	Suitable for: WB, ELISA
Species reactivity	Reacts with: Recombinant fragment
Immunogen	Recombinant fragment corresponding to Human TPO aa 1-200. Database link: P40225

 [Run BLAST with](#)

 [Run BLAST with](#)

General notes

The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Lyophilized:Reconstitute in sterile PBS with 0.1% BSA to 0.1 - 1.0 mg/ml.
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle. Store In the Dark.
Storage buffer	Constituents: PBS, 0.1% BSA
Purity	Affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab271257 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 0.1 - 0.2 µg/ml. Predicted molecular weight: 38 kDa.
ELISA		Use a concentration of 0.25 - 1 µg/ml.

Target

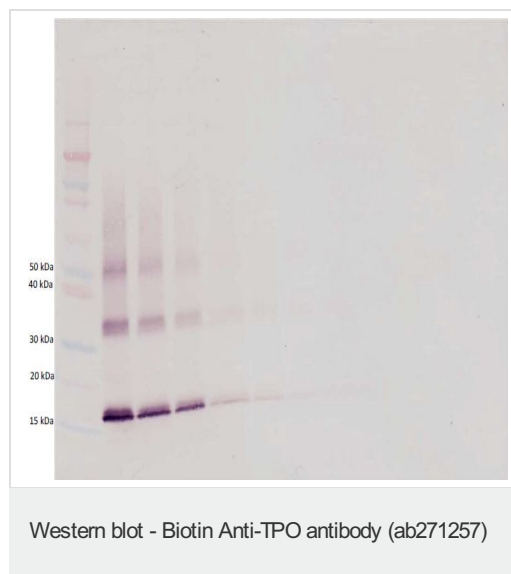
Relevance

TPO 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. Additional splice variants have been described but their biological natures have not been determined.

Cellular localization

Secreted

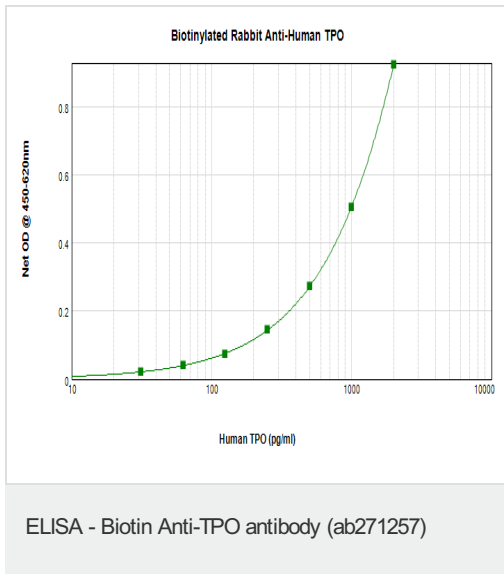
Images



Western blot analysis of varying levels of Recombinant human TPO protein using ab271257 at 0.1 µg/ml.

Used in conjunction with compatible secondary reagents the detection limit for recombinant TPO is 1.5 - 3.0 ng/lane, under either reducing or non-reducing conditions.

Lane	ng/lane
1	Marker
2	250
3	125
4	62.5
5	31.25
6	15.625
7	7.8
8	3.9
9	1.95
10	0.975
11	0.4875
12	0.24



Human TPO was detected by sandwich ELISA (using 100 μ l/well) using a concentration of 0.25-1.0 μ g/ml of ab271257. This antibody in conjunction with an appropriate capture antibody, allows the detection of at least 0.2 – 0.4 ng/well of recombinant TPO protein.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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