Product datasheet

Anti-Thyroid Peroxidase/TPO antibody ab203057

Overview

Product name
Anti-Thyroid Peroxidase/TPO antibody

Description
Rabbit polyclonal to Thyroid Peroxidase/TPO

Host species
Rabbit

Tested applications
Suitable for: IHC-P, WB

Species reactivity
Reacts with: Mouse, Rat, Human

Immunogen
Synthetic peptide within Mouse Thyroid Peroxidase/TPO aa 375-425 conjugated to keyhole limpet haemocyanin. The exact sequence is proprietary.

Sequence:
TPCFLA GDGRASEVPA LAAVHTLWLREHNRLASAFK
AINKHWSANT AYQEA

Database link: P35419

Positive control
Human thyroid tissue, Rat thyroid lysate

Properties

Form
Liquid

Storage instructions

Storage buffer
Preservative: 0.09% Sodium azide
Constituents: 50% Glycerol, 0.01% BSA

Purity
Protein A purified

Clonality
Polyclonal

Isotype
IgG

Applications

Our Abpromise guarantee covers the use of ab203057 in the following tested applications.

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

Iodination and coupling of the hormonogenic tyrosines in thyroglobulin to yield the thyroid hormones T(3) and T(4).

Pathway

Hormone biosynthesis; thyroid hormone biosynthesis.

Involvement in disease

Note=An alternative splicing in the thyroperoxidase mRNA can cause Graves' disease. Defects in TPO are the cause of congenital hypothyroidism due to dyshormonogenesis type 2A (CHDH2A) [MIM:274500]; also called genetic defect in thyroid hormonogenesis 2A or thyroid hormone organification defect II. CHDH2A is due to defective conversion of accumulated iodide to organically bound iodine. The iodide organification defect can be partial or complete.

Sequence similarities

Belongs to the peroxidase family. XPO subfamily. Contains 1 EGF-like domain. Contains 1 Sushi (CCP/SCR) domain.

Post-translational modifications

Glycosylated. Heme is covalently bound through a H(2)O(2)-dependent autocatalytic process. Heme insertion is important for the delivery of protein at the cell surface. Cleaved in its N-terminal part.

Cellular localization

Membrane and Cell surface.

Images

Anti-Thyroid Peroxidase/TPO antibody (ab203057) at 1/200 dilution + Rat thyroid lysate

Predicted band size: 101 kDa
Immunohistochemical analysis of formalin-fixed paraffin-embedded Human thyroid tissue labeling Thyroid Peroxidase/TPO with ab203057 at 1:200 dilution. The secondary antibody was Goat Anti-Rabbit IgG, Cy3 conjugated used at 1:200 dilution for 40 minutes at 37°C.

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit https://www.abcam.com/abpromise or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors