abcam

Product datasheet

Anti-Thyroglobulin antibody [EPR9730(IHC)] ab168344

Recombinant RabMAb

9 Images

Overview

Product name	Anti-Thyroglobulin antibody [EPR9730(IHC)]
Description	Rabbit monoclonal [EPR9730(IHC)] to Thyroglobulin
Host species	Rabbit
Tested applications	**Suitable for:** ICC/IF, IHC-P **Unsuitable for:** IP or WB
Species reactivity	**Reacts with:** Human **Does not react with:** Mouse, Rat
Immunogen	Recombinant full length protein corresponding to Human Thyroglobulin aa 1-2800. Database link: **P01266**
Positive control	Human thyroid gland follicular and papillary carcinoma tissues; TT cells.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Properties

Form	Liquid
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.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
Purity	Protein A purified
Clonality	Monoclonal

Clone number	EPR9730(IHC)
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab168344 in the following tested applications.

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

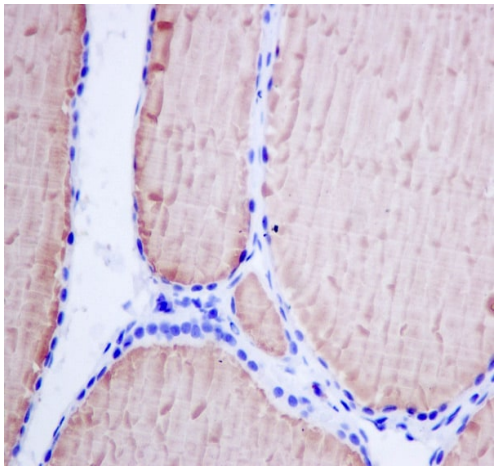
Application	Abreviews	Notes
ICC/IF		1/250 - 1/500.
IHC-P		1/250 - 1/500. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Application notes Is unsuitable for IP or WB.

Target

Function	Precursor of the iodinated thyroid hormones thyroxine (T4) and triiodothyronine (T3).
Tissue specificity	Thyroid gland specific.
Involvement in disease	Defects in TG are the cause of congenital hypothyroidism due to dyshormonogenesis type 3 (CHDH3) [MIM:274700]. A disorder due to thyroid dyshormonogenesis, causing large goiters of elastic and soft consistency in the majority of patients. Although the degree of thyroid dysfunction varies considerably among patients with defective thyroglobulin synthesis, patients usually have a relatively high serum free triiodothyronine (T3) concentration with disproportionately low free tetraiodothyronine (T4) level. The maintenance of relatively high free T3 levels prevents profound tissue hypothyroidism except in brain and pituitary, which are dependent on T4 supply, resulting in neurologic and intellectual defects in some cases. Variations in TG are associated with susceptibility to autoimmune thyroid disease type 3 (AITD3) [MIM:608175]. AITDs including Graves disease (GD) and Hashimoto thyroiditis (HT), are among the most common human autoimmune diseases. They are complex diseases, which are caused by an interaction between susceptibility genes and nongenetic factors, such as infection.
Sequence similarities	Belongs to the type-B carboxylesterase/lipase family. Contains 11 thyroglobulin type-1 domains.
Post-translational modifications	Sulfated tyrosines are desulfated during iodination.
Cellular localization	Secreted.

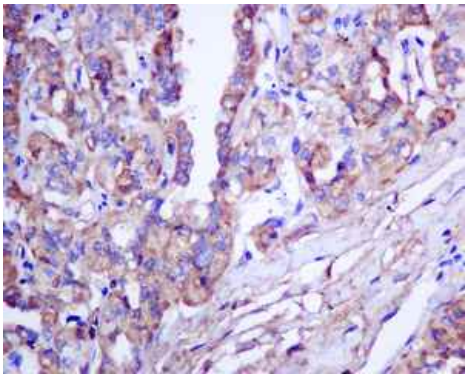
Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Thyroglobulin antibody [EPR9730(IHC)] (ab168344)

ab168344 showing +ve staining in Human thyroid gland tissue.

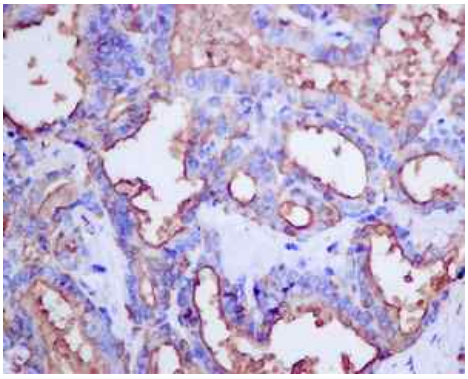
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Thyroglobulin antibody [EPR9730(IHC)] (ab168344)

Immunohistochemical analysis of paraffin-embedded Human thyroid gland papillary carcinoma tissue labelingThyroglobulin with ab168344 at 1/250 dilution.

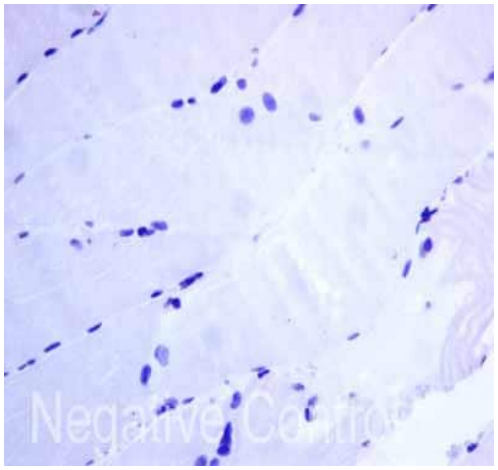
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Thyroglobulin antibody [EPR9730(IHC)] (ab168344)

Immunohistochemical analysis of paraffin-embedded Human thyroid gland follicular carcinoma tissue labeling Thyroglobulin with ab168344 at 1/250 dilution.

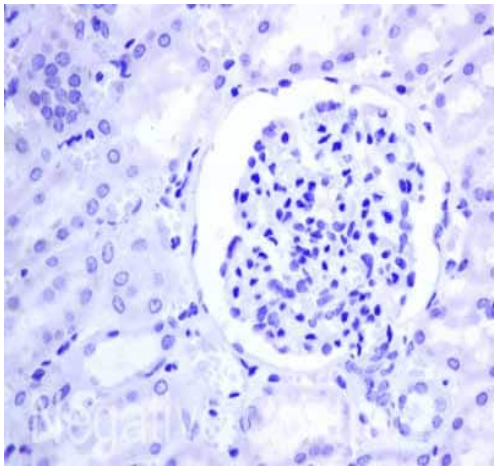
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Thyroglobulin antibody [EPR9730(IHC)] (ab168344)

ab168344 showing -ve staining in Human skeletal muscle tissue.

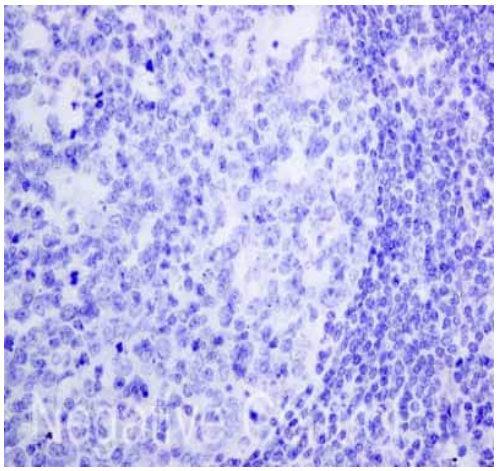
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Thyroglobulin antibody [EPR9730(IHC)] (ab168344)

ab168344 showing -ve staining in Human normal kidney tissue.

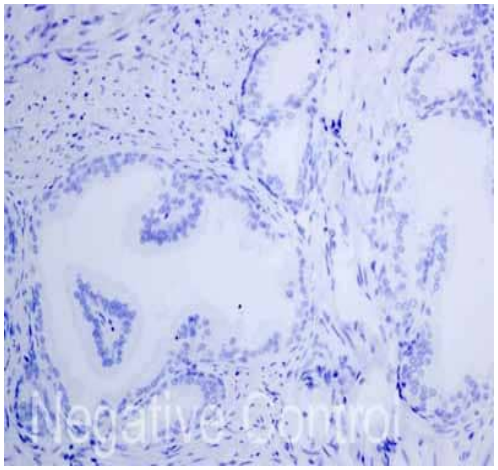
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Thyroglobulin antibody [EPR9730(IHC)] (ab168344)

ab168344 showing -ve staining in Human normal tonsil tissue.

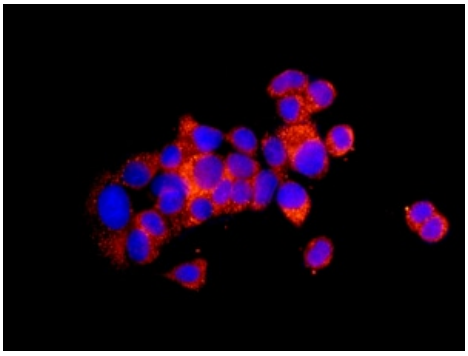
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Thyroglobulin antibody [EPR9730(IHC)] (ab168344)

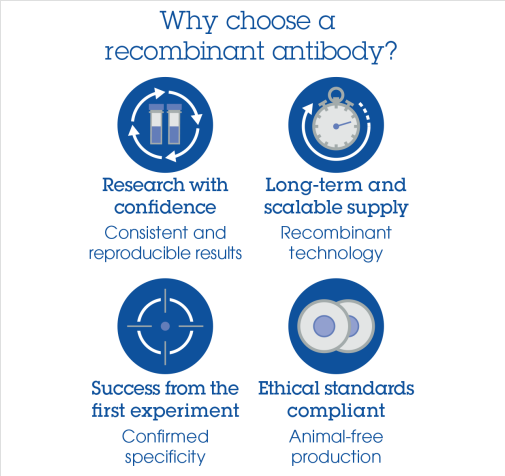
ab168344 showing -ve staining in Human prostate hyperplasia tissue.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-Thyroglobulin antibody [EPR9730(IHC)] (ab168344)

Immunofluorescent analysis of TT cells labeling Thyroglobulin with ab168344 at 1/250 dilution.



Anti-Thyroglobulin antibody [EPR9730(IHC)]

(ab168344)

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