

# Anti-Thyroglobulin antibody [EPR9730(IHC)] - BSA and Azide free ab249444

Recombinant RabMAb

9 Images

### Overview

<b>Product name</b>	Anti-Thyroglobulin antibody [EPR9730(IHC)] - BSA and Azide free
<b>Description</b>	Rabbit monoclonal [EPR9730(IHC)] to Thyroglobulin - BSA and Azide free
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, ICC/IF <b>Unsuitable for:</b> IP or WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Does not react with:</b> Mouse, Rat
<b>Immunogen</b>	Recombinant full length protein corresponding to Human Thyroglobulin aa 1-2800. Database link: <a href="#">P01266</a>
<b>General notes</b>	<p>ab249444 is the carrier-free version of <a href="#">ab168344</a>.</p> <p>Our <b>carrier-free</b> antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our <b>conjugation kits</b> for antibody conjugates that are ready-to-use in as little as 20 minutes with &lt;1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar<sup>®</sup> Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar<sup>®</sup> is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"><li>- High batch-to-batch consistency and reproducibility</li><li>- Improved sensitivity and specificity</li><li>- Long-term security of supply</li><li>- Animal-free production</li></ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

## Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C. Do Not Freeze.
<b>Storage buffer</b>	pH: 7.2 Constituent: PBS
<b>Carrier free</b>	Yes
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR9730(IHC)
<b>Isotype</b>	IgG

## Applications

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**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab249444 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
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ICC/IF		Use at an assay dependent concentration.

**Application notes** Is unsuitable for IP or WB.

## Target

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<b>Function</b>	Precursor of the iodinated thyroid hormones thyroxine (T4) and triiodothyronine (T3).
<b>Tissue specificity</b>	Thyroid gland specific.
<b>Involvement in disease</b>	<p>Defects in TG are the cause of congenital hypothyroidism due to dysmorphogenesis type 3 (CHDH3) [MIM:274700]. A disorder due to thyroid dysmorphogenesis, 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.</p> <p>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.</p>
<b>Sequence similarities</b>	Belongs to the type-B carboxylesterase/lipase family. Contains 11 thyroglobulin type-1 domains.

**Post-translational modifications**

Sulfated tyrosines are desulfated during iodination.

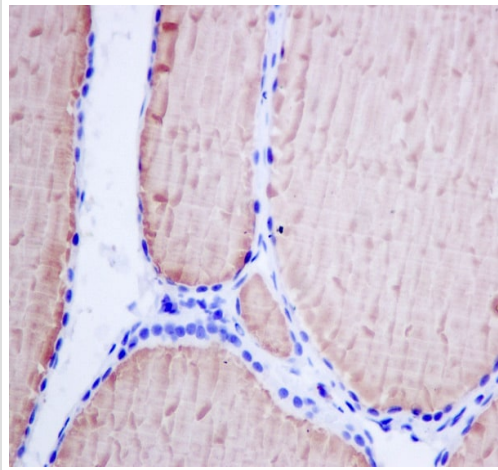
**Cellular localization**

Secreted.

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**Images**

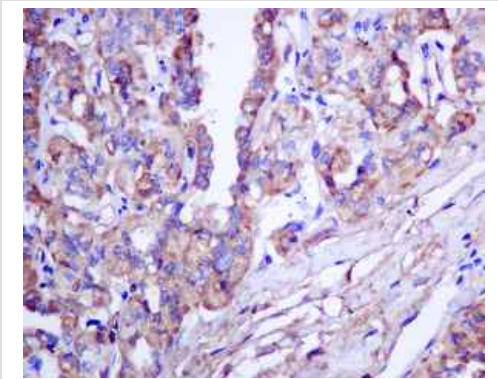
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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Thyroglobulin antibody [EPR9730(IHC)] - BSA and Azide free (ab249444)

This data was developed using **ab168344**, the same antibody clone in a different buffer formulation.

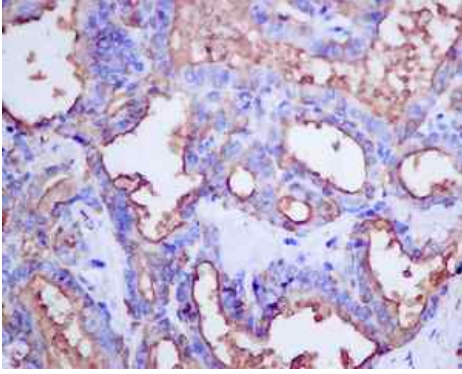
**ab168344** showing +ve staining in Human thyroid gland tissue. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Thyroglobulin antibody [EPR9730(IHC)] - BSA and Azide free (ab249444)

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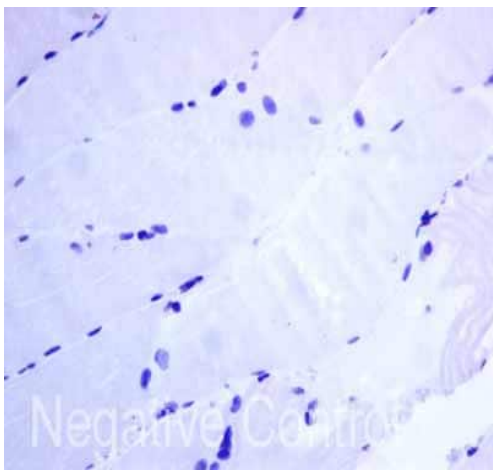
Immunohistochemical analysis of paraffin-embedded Human thyroid gland papillary carcinoma tissue labeling Thyroglobulin with **ab168344** at 1/250 dilution. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Thyroglobulin antibody [EPR9730(IHC)] - BSA and Azide free (ab249444)

This data was developed using **ab168344**, the same antibody clone in a different buffer formulation.

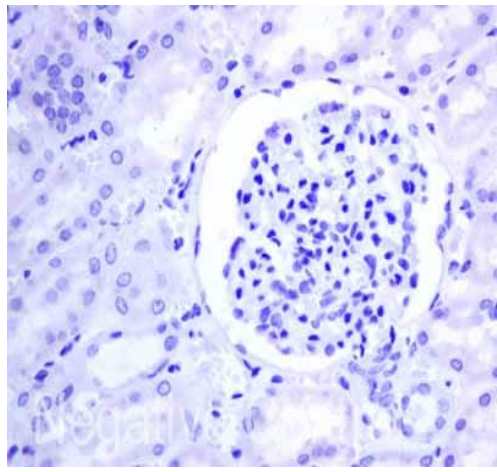
Immunohistochemical analysis of paraffin-embedded Human thyroid gland follicular carcinoma tissue labeling Thyroglobulin with **ab168344** at 1/250 dilution. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Thyroglobulin antibody [EPR9730(IHC)] - BSA and Azide free (ab249444)

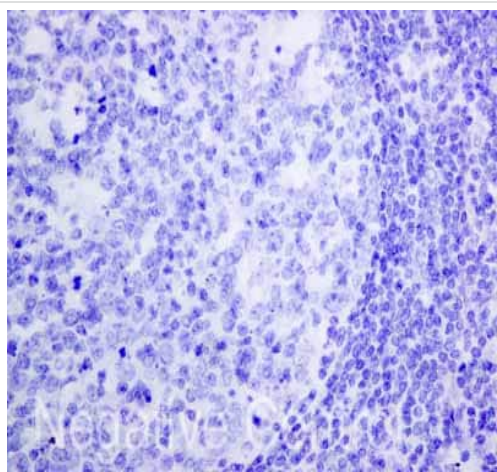
This data was developed using **ab168344**, the same antibody clone in a different buffer formulation.

**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.



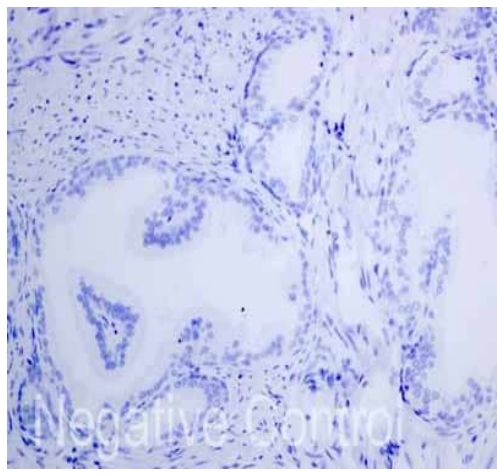
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Thyroglobulin antibody [EPR9730(IHC)] - BSA and Azide free (ab249444)

This data was developed using [ab168344](#), the same antibody clone in a different buffer formulation. [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.



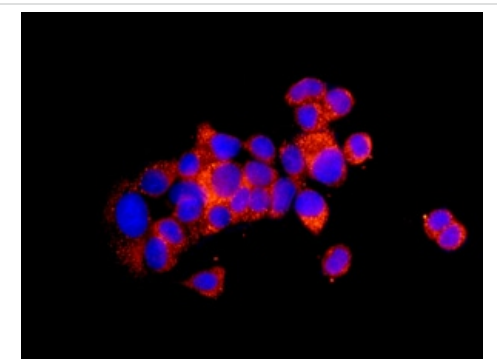
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Thyroglobulin antibody [EPR9730(IHC)] - BSA and Azide free (ab249444)

This data was developed using [ab168344](#), the same antibody clone in a different buffer formulation. [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)] - BSA and Azide free (ab249444)

This data was developed using [\*\*ab168344\*\*](#), the same antibody clone in a different buffer formulation. [\*\*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)] - BSA and Azide free (ab249444)

This data was developed using [\*\*ab168344\*\*](#), the same antibody clone in a different buffer formulation. Immunofluorescent analysis of TT cells labeling Thyroglobulin with [\*\*ab168344\*\*](#) at 1/250 dilution.

### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-Thyroglobulin antibody [EPR9730(IHC)] - BSA and Azide free (ab249444)

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

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