

# Product Datasheet

## Thyroglobulin Antibody (rTGB/4744) NBP3-07351-100ug

Unit Size: 100 ug

Store at 4C.

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**NBP3-07351-100ug**

Thyroglobulin Antibody (rTGB/4744)

Product Information	
Unit Size	100 ug
Concentration	0.2 mg/ml
Storage	Store at 4C.
Clonality	Monoclonal
Clone	rTGB/4744
Preservative	0.05% Sodium Azide
Isotype	IgG2a Kappa
Purity	Protein A or G purified
Buffer	10 mM PBS with 0.05% BSA

Product Description	
Description	<p>200ug/ml of antibody purified from Bioreactor Concentrate by Protein A or G. Prepared in 10 mM PBS with 0.05% BSA &amp; 0.05% azide. Also available WITHOUT BSA &amp; azide at 1.0 mg/ml. (NBP3-08264)</p> <p>Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80 C.</p>
Host	Mouse
Gene ID	7038
Gene Symbol	TG
Species	Human, Mouse, Rat
Marker	Thyroidal Cell Marker
Specificity/Sensitivity	<p>rTGB/4744 reacts with a partially defined epitope of human thyroglobulin. This epitope is different from the epitope recognized by monoclonal antibody 6E1. Thyroglobulin is a 660kDa dimeric pre-protein with multiple glycosylation sites. It is produced by and processed within the thyroid gland to produce the hormone thyroxine and triiodothyronine. Prior to forming dimers, thyroglobulin monomers undergo conformational maturation in the endoplasmic reticulum. The vast majority of follicular carcinomas of the thyroid will give positive immunoreactivity for anti-thyroglobulin even though sometimes only focally. Poorly differentiated carcinomas of the thyroid are frequently anti-thyroglobulin negative. Adenocarcinomas of other-than-thyroid origin do not react with this antibody. This antibody is useful in identification of thyroid carcinoma of the papillary and follicular types. Presence of thyroglobulin in metastatic lesions establishes the thyroid origin of tumor. Anti-thyroglobulin, combined with anti-calcitonin, can identify medullary carcinomas of the thyroid. Furthermore, anti-thyroglobulin, combined with anti-TTF1, can be a reliable marker to differentiate between primary thyroid and lung neoplasms.</p>
Immunogen	Human thyroid follicular cells

Product Application Details	
Applications	Flow Cytometry, Immunohistochemistry-Paraffin
Recommended Dilutions	Flow Cytometry 0.5-1 ug/million cells, Immunohistochemistry-Paraffin 1-2 ug/ml

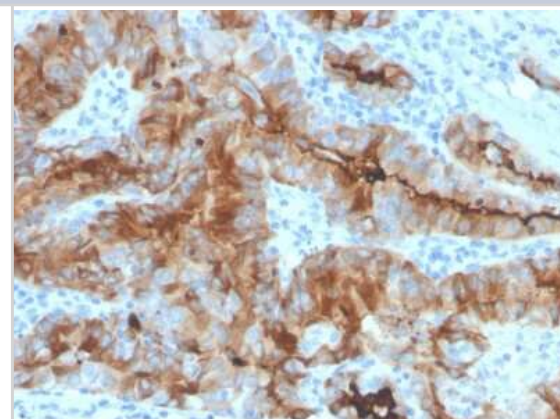


**Application Notes**

Immunohistochemistry (Formalin-fixed): 1-2ug/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95C followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined.

**Images**

Immunohistochemistry-Paraffin: Thyroglobulin Antibody (rTGB/4744) [NBP3-07351] - Formalin-fixed, paraffin-embedded human thyroid carcinoma stained with Thyroglobulin Mouse Recombinant Monoclonal Antibody (rTGB/4744).





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### **Products Related to NBP3-07351-100ug**

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-96981-0.5mg	Mouse IgG2a Kappa Isotype Control (M2AK)
H00007038-Q02-25ug	Recombinant Human Thyroglobulin GST (N-Term) Protein

### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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