

Datasheet for ABIN6940705  
**anti-Thyroglobulin antibody**[Go to Product page](#)

## 1 Image

## Overview

Quantity:	100 µg
Target:	Thyroglobulin (TG)
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Thyroglobulin antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Flow Cytometry (FACS), ELISA, Western Blotting (WB), Staining Methods (StM), Coating (Coat)

## Product Details

Immunogen:	Human thyroid follicular cells
Clone:	SPM221
Isotype:	IgG1 kappa
Purification:	Purified by Protein A/G

## Target Details

Target:	Thyroglobulin (TG)
Alternative Name:	Thyroglobulin (Thyroidal Cell Marker) ( <a href="#">TG Products</a> )
Background:	Thyroglobulin is a 660 kDa 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

## Target Details

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.

Molecular Weight: 660kDa (Dimeric Form)

Gene ID: 7038

UniProt: [P01266](#)

Pathways: [Thyroid Hormone Synthesis](#)

## Application Details

Application Notes: Positive Control: Thyroid.  
Known Application: ELISA (For coating, order Ab without BSA), Flow Cytometry (0.5-1 µg/million cells), Western Blot (0.5-1 µg/mL), Immunohistochemistry (Formalin-fixed) (0.5-1 µg/mL, 30 min at RT) (Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined.

Restrictions: For Research Use only

## Handling

Concentration: 200 µg/mL

Buffer: 10 mM PBS with 0.05 % BSA & 0.05 % azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C,-80 °C

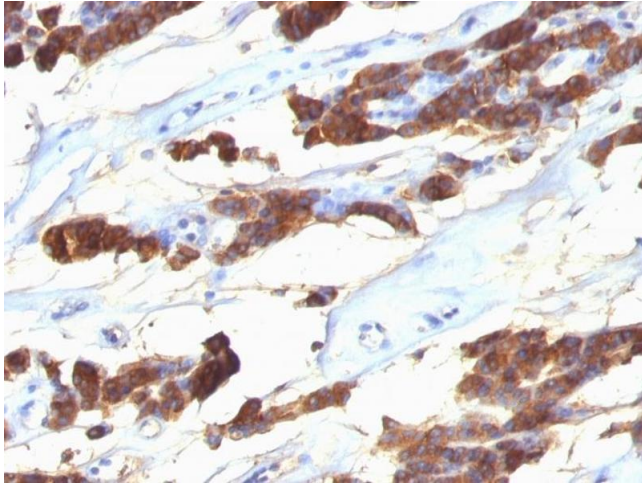
Storage Comment: Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody

## Handling

is stable for 24 months. Non-hazardous. No MSDS required.

Expiry Date: 24 months

## Images



### Immunohistochemistry

**Image 1.** Formalin-fixed, paraffin-embedded human Thyroid Carcinoma stained with Thyroglobulin Monoclonal Antibody (SPM221).