

Thyroglobulin (EP250)


Rabbit anti-human Thyroglobulin Monoclonal Antibody (Clone EP250)

REFERENCES AND PRESENTATIONS¹

- **ready-to-use** (manual or LabVision AutoStainer)
MAD-000722QD-3
MAD-000722QD-7
MAD-000722QD-12
- **Ready-to-use (MD-Stainer)²**
MAD-000722QD-3/V
MAD-000722QD/V
- **concentrated**
MAD-000722Q - 1:100 recommended dilution

COMPOSITION

Anti-human Thyroglobulin rabbit monoclonal antibody purified from serum and prepared in 10mM PBS, pH 7.4, with 0.2% BSA and 0.09% sodium azide

INTENDED USE : Immunohistochemistry (IHC) on paraffin embedded tissues. Not tested on frozen tissues or Western-Blotting

CLONE: EP250³

Ig ISOTYPE: Rabbit IgG

IMMUNOGEN: A synthetic peptide corresponding to residues of human Thyroglobulin protein.

SPECIES REACTIVITY: In vitro diagnostics in humans. Not tested in other species

DESCRIPTION AND APPLICATIONS:

Thyroglobulin (TG) is a dimeric glycoprotein specific to the thyroid gland which belongs to the type-B carboxylesterase/lipase family. It is the precursor of the iodinated thyroid hormones triiodothyronine (T3) and thyroxine (T4). Variations in TG are associated with susceptibility to autoimmune thyroid disease type 3, and defective or impaired TG synthesis usually results in congenital goitrous hypothyroidism, virtual absence of TG in thyroid tissue, and the presence of an elevated concentration of iodoalbumin. The final result of these abnormalities is a decreased rate of T3 and T4 synthesis. Thyroglobulin is found in normal



thyroid and differentiated thyroid carcinoma cells but not undifferentiated thyroid. Thyroglobulin is a useful marker for identification of tumors with thyroid origin.

IHC POSITIVE CONTROL: Normal thyroid

VISUALIZATION: Cell cytoplasm

IHC RECOMMENDED PROCEDURE:

- 4µm thick section should be taken on charged slides; dry overnight at 60°C
- Deparaffinise, rehydrate and HIER (heat induced epitope retrieval) – boil tissue in the Pt Module using Vitro S.A Citrate buffer pH6⁴ for 20 min at 95°C. Upon completion rinse with 3-5 changes of distilled or deionised water followed by cooling at RT for 20 min
- Endogenous peroxidase block - Blocking for 10 minutes at room temperature using peroxidase solution (ref. MAD-021540Q-125)
- Primary antibody: incubate for 10 minutes [The antibody dilution (when concentrated) and protocol may vary depending on the specimen preparation and specific application. Optimal conditions should be determined by the individual laboratory]
- For detection use Master Polymer Plus Detection System (HRP) (DAB included; ref. MAD-000237QK)
- Counterstaining with haematoxylin and final mounting of the slide

STORAGE AND STABILITY:  Stored at 2-8°C. Do not freeze.  Once the packaging has been opened it can be stored until the expiration date of the reagent indicated on the label. If the reagent has been stored under other conditions to those indicated in this document, the user must first check its correct performance taking into account the product warranty is no longer valid.

WARNINGS AND PRECAUTIONS:

1. Avoid contact of reagents with eyes and mucous membranes. If reagents come into contact with sensitive areas, wash with copious amounts of water.
2. This product is harmful if swallowed.
3. Consult local or state authorities with regard to recommended method of disposal.
4. Avoid microbial contamination of reagents.

¹ These references are for presentation in vials of Low Density Polyethylene (LDPE) dropper. In case the products are used in automated stainers, a special reference is assigned as follows:

- / L: Cylindrical screw-cap vials (QD-3 / L, QD-7 / L, QD-12 / L).
- / N: Polygonal screw-cap vials (QD-3 / N, QD-7 / N, QD-12 / N).

For different presentations (references / volumes) please contact the supplier.

² For Technical specifications for MD-Stainer, please contact your distributor.

³ Thyroglobulin clone EP250 is manufactured using Epitomics's RabMab® technology under U.S. Patent Nos. 5,675,063 and 7,402,409

⁴ Ref: MAD-004071R/D



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SAFETY RECOMMENDATIONS:










This product is intended for laboratory professional use only. The product is NOT intended to be used as a drug or for domestic purposes. The current version of the Safety Data Sheet for this product can be downloaded by searching the reference number at www.vitro.bio or can be requested at regulatory@vitro.bio.

BIBLIOGRAPHY

1. Ossendorp FA, Bruning PF, Van den Brink JA, De Boer M. Efficient selection of high-affinity B cell hybridomas using antigen-coated magnetic beads.: J Immunol.Methods 120: 191 (1989).
2. Rosai J. Immunohistochemical markers of thyroid tumors: significance and diagnostic applications. Tumori. 89:517-9 (2003).

LABEL AND BOX SYMBOLS

Explanation of the symbols of the product label and box:

	Expiration date
	Temperature limit
	Manufacturer
	Sufficient content for <n> assays
	Catalog number
	Lot code
	Refer to the instructions of use
	Medical product for <i>in vitro</i> diagnosis.
	Material safety data sheet

