

Monoclonal Antibody to Thyroglobulin (Tg) - FITC

Alternate names: TGN, Thyreoglobulin

Catalog No.: AM10040FC-N

Quantity: 0.2 mg

Concentration: 0.2 mg/ml

Background: Thyroglobulin (Tg) is a 660 kDa dimeric protein produced by and used by entirely within thyroid gland. Tg is used by the thyroid gland to produce the thyroid hormone thyroxine (T4) and triiodothyronine (T3). Tg is produced by the thyroid epithelial cells, called thyrocytes, which form spherical follicles. Tg is stored in the follicle lumen. Tg levels in the blood can be used as markers for certain kind of thyroid cancer. Tg levels are also elevated in Graves disease.

Uniprot ID: [P01266](#)

NCBI: [NP_003226.4](#)

GeneID: [7038](#)

Host / Isotype: Mouse / IgG1

Clone: TG221

Immunogen: Purified human Thyroglobulin.

Remarks: Molecular weight of antigen: 330 kDa.

Format: **State:** Liquid purified Ig fraction.

Buffer System: PBS, pH 7.4 containing 1% BSA as stabilizer and 0.05% Sodium Azide as preservative.

Label: FITC

Applications: Suitable for Immunohistochemistry and Immunocytochemistry (Frozen or Formalin-Fixed Paraffin-Embedded (FFPE) tissue sections and cell smears)

For IHC dilute concentrated antibody at 1/50-1/100, use streptavidin~biotin system or polymer system, incubate 30 minutes at room temperature.

Immunofluorescence: 10-20 µg/ml (1/10-1/20), incubate for 2 hours in the dark at RT or it can also be incubated overnight at 4°C.

Flow Cytometry: 0.2-1.0 µg/0.1 ml (1/200-1/1,000).

Recommended Positive Control: Human thyroid.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: This antibody Tg is useful in identification of thyroid carcinoma of the papillary and follicular types. Presence of Tg in metastatic lesion establishes thyroid origin of tumor.

Cellular Localization: Cytoplasmic.

Species: Human.

Other species not tested.

For research and in vitro use only. Not for diagnostic or therapeutic work.

Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Antibody Hotline - Technical Questions - Antibody Location Service
Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com

Storage:

Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.
Avoid repeated freezing and thawing.
This product is photosensitive and should be protected from light.
Shelf life: One year from despatch.

General Readings:

1. Ossendorp, FA et. al. J. Immunol. Methods. 120: 191-200, 1989.
2. Ossendorp, FA, et.al. 127: 419-430, 1990.

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