

Product datasheet for **AM10040FC-N**

Thyroglobulin (TG) Mouse Monoclonal Antibody [Clone ID: TG221]

Product data:

Product Type:	Primary Antibodies
Clone Name:	TG221
Applications:	FC, IF, IHC
Recommended Dilution:	Suitable for Immunohistochemistry and Immunocytochemistry (Frozen or Formalin-Fixed Paraffin-Embedded (FFPE) tissue sections and cell smears) For IHC dilute concentrated antibody at 1/50-1/200, 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.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified human Thyroglobulin.
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.
Formulation:	PBS, pH 7.4 containing 1% BSA as stabilizer and 0.05% Sodium Azide as preservative. Label: FITC State: Liquid purified Ig fraction.
Concentration:	lot specific
Conjugation:	FITC
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.
Stability:	Shelf life: One year from despatch.
Gene Name:	thyroglobulin



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Database Link: [Entrez Gene 7038 Human P01266](#)

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.

Synonyms: Thyreoglobulin, TGN