

**Thyroglobulin (Tg) Mouse MAb anti-human**

<b>Catalog number:</b> MM-1021-01	0.5 ml	Concentrated	IgG1	0.2 mg/ml
MM-1021-02	1.0 ml	Concentrated	IgG1	0.2 mg/ml
MM-1021-04	7.0 ml	Prediluted for IHC	IgG1	5µg/ml
MM-1021-15	0.5 ml	FITC~conjugated	IgG1	0.2 mg/ml
MM-1021-16	1.0 ml	FITC~conjugated	IgG1	0.2 mg/ml

**Buffer** The antibodies are supplied with 1% BSA in PBS with 0.05% azide, pH 7.4. The Prediluted antibody is supplied in our Universal antibody dilution buffer (AR-6526) green in color.

**Description:** 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.

**Antibody to 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.**

**Intended Use:** Immunohistochemistry (IHC) and Immunocytochemistry (ICC)  
Immunofluorescence (IF), Flow cytometry (not tested at our lab).

**Storage:** 2-8°C

**Clone:** Tg 221

**Isotype:** IgG1/κ

**Epitope:** not known

**Molecular weight of antigen:** 330 kDa

**Immunogen:** Purified human Thyroglobulin

**Species reactivity:** Human, others not tested.

**Cellular Localization:** Cytoplasmic

**Recommended positive control:** Human thyroid

**Application:** IHC, ICC (frozen or formalin-fixed paraffin-embedded (FFPE) tissue sections, cell smears.

For IHC dilute conc. antibodies 1:50-1:100, use streptavidin~biotin system or polymer system, incubate 30 minutes at room temperature.

Prediluted antibody is ready to be used for IHC.

IF, FITC~conjugated antibodies 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: FITC~conjugated antibodies, 0.2-1.0 µg/0.1 ml (1:200-1:1,000) (Not tested in our lab).

The optimum dilution should be determined by the individual lab.

**General References**

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

**Limitation and warranty:** Our warranty is limited to the actual price paid for the product. We are not liable for any property damage, personnel injury, time, effort or economic loss due to our product.

**MSDS:** This product contains 0.05 % sodium azide as a preservative, appropriate care should be taken in handling. National Institute of Occupational Safety and Health has warning that sodium azide can react with lead, copper, brass or solder in the plumbing system and forms hydrazoic acid in acidic condition. Discard with copious amount of water. Avoid skin and eye contact with all laboratory products. Use appropriate lab. gear, lab coat, gloves and safety glasses. Do not ingest any lab products. This product is not approved for administration in human or animals.

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For research use only, not for use in diagnostic or therapeutic procedures or in vivo use

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