ImmunoBioScience Corp. (IBSC) *DATA SHEET*Thyroglobulin (Tg) Polyclonal rabbit-anti-human

**Catalog number:** RP-4009-01 0.5 ml Concentrated IgG 1.0 mg/ml

RP-4009-02 1.0 ml Concentrated IgG 1.0mg/ml

RP-4009-04 7.0 ml Prediluted for IHC IgG 5µg/ml

**Buffer** The antibody is 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 Immunocytchemistry (ICC)

**Storage**: 2-8°C

**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) 1:50-1:100 using streptavidin-Biotin system or polymer system. Prediluted antibody is used directly without dilution. 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 laboratory gear, lab coat , gloves and safety glasses. Do not ingest any laboratory products. This product is not approved for administration in human or animals.

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