

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Thyroglobulin in direct ELISAs.
Source	Monoclonal Mouse IgG ₁ Clone # 904802
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human Thyroglobulin Met1-Lys2768 Accession # P01266
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Human Thyroglobulin (Tg) gene is localized at position 8q242-8q243. The gene covers a genome area of at least 300 000 bp and contains at least 37 exons. Thyroglobulin (Tg) is a dimeric 660 kDa glycoprotein produced by follicular cells (thyrocytes) in thyroid gland and stored in the follicular colloid of the gland. Tg is heterogenic due to post-translational modifications, such as iodination, glycosylation, sulfation, phosphorylation and it is highly sensitivity to proteolysis. Acting as a substrate, Tg is used for the synthesis of thyroid hormones thyroxine (T4) and triiodothyronine (T3). Tg level can serve as a tumor marker of papillary and follicular thyroid cancer and elevated levels of anti-Tg antibodies in blood can be indicative of Graves disease.

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