

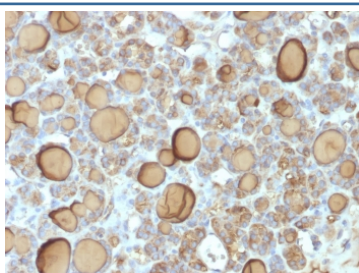
## Recombinant TG Antibody / Rabbit Monoclonal [clone TGB/1970R] (V3640)

Catalog No.	Formulation	Size
V3640-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3640-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3640SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V3640IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

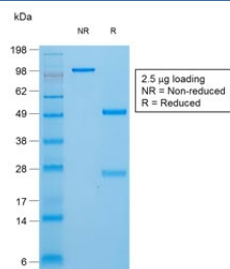
Recombinant **RABBIT MONOCLONAL**

[Bulk quote request](#)

<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Purified
<b>Clonality</b>	Recombinant Rabbit Monoclonal
<b>Isotype</b>	Rabbit IgG, kappa
<b>Clone Name</b>	TGB/1970R
<b>Purity</b>	Protein A affinity chromatography
<b>UniProt</b>	P01266
<b>Localization</b>	Cytoplasmic, secreted
<b>Applications</b>	Immunohistochemistry (FFPE) : 0.5-1ug/ml for 30 min at RT
<b>Limitations</b>	This recombinant TG antibody is available for research use only.



IHC testing of FFPE human thyroid gland with recombinant TG antibody (clone TGB/1970R). Required HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 min.



SDS-PAGE analysis of purified, BSA-free recombinant TG antibody (clone TGB/1970R) as confirmation of integrity and purity.

## Description

Thyroglobulin (Tg) is a 660 kDa, dimeric protein produced by the follicular cells of the thyroid and used entirely within the thyroid gland. Thyroglobulin protein accounts for approximately half of the protein content of the thyroid gland. Human TG (HTG) is a homodimer of subunits each containing 2768 amino acids as synthesized (a short signal peptide may be removed from the N-terminus in the mature protein).

The protein is a precursor of the thyroid hormones; these are produced when thyroglobulin's tyrosine residues are combined with iodine and the protein is subsequently cleaved. Each thyroglobulin molecule contains approximately 100-120 tyrosine residues, but only a small number (20) of these are subject to iodination by thyroperoxidase in the follicular colloid. Therefore, each Tg molecule forms only approximately 10 thyroid hormone molecules. [Wiki]

## Application Notes

The stated application concentrations are suggested starting points. Titration of the recombinant TG antibody may be required due to differences in protocols and secondary/substrate sensitivity.

1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

## Immunogen

Human thyroid follicular cells were used as the immunogen for the recombinant TG antibody.

## Storage

Store the recombinant TG antibody at 2-8°C (with azide) or aliquot and store at -20°C or colder (without azide).