



# Anti-TG monoclonal antibody, clone SCV/02 (DMAB5497MH)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Product Overview</b>	Mouse anti-human thyroglobulin monoclonal antibody is intended for qualitative immunohistochemistry with normal and neoplastic formalin-fixed, paraffin-embedded tissue sections, to be viewed by light microscopy. Clinical interpretation of staining results should be accompanied by histological studies with proper controls. Patients' clinical histories and other relevant diagnostic tests should be utilized by a qualified person(s) when evaluating and interpreting results.
<b>Antigen Description</b>	Thyroglobulin (Tg) is a 660 kDa, dimeric protein produced by and used entirely within the thyroid gland. In earlier literature, Tg was referred to as colloid. Thyroglobulin should not be confused with Thyroxine-binding globulin, a carrier protein responsible for carrying the thyroid hormones in the blood.
<b>Specificity</b>	This antibody is specific to the 330 kD protein. Thyroglobulin is synthesized by follicular epithelial cells of the thyroid. Thyroglobulin antibody has been useful in the positive identification of thyroid carcinomas of the papillary and follicular types. It stains thyroglobulin in adenoma from thyroid (microfollicles). This antibody cross reacts with human, bovine, porcine, goat, and guinea pig thyroglobulin.
<b>Immunogen</b>	BALB/C mice were injected with purified human thyroglobulin.
<b>Isotype</b>	IgG1
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Clone</b>	SCV/02
<b>Conjugate</b>	Unconjugated

<b>Applications</b>	IHC
<b>Cellular Localization</b>	Cytoplasmic
<b>Positive Control</b>	Thyroid
<b>Format</b>	This antibody was derived from ascites. It contains sodium azide as a preservative.
<b>Preservative</b>	See individual product datasheet
<b>Storage</b>	Store at 2-8°C. Do not use beyond the expiration date stated on the label.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">TG thyroglobulin [ Homo sapiens ]</a>
<b>Synonyms</b>	TG; thyroglobulin; TGN; AITD3; Tg; TDH3; OTTHUMP00000227159
<b>Entrez Gene ID</b>	<a href="#">7038</a>
<b>Protein Refseq</b>	<a href="#">NP_003226</a>
<b>UniProt ID</b>	<a href="#">P01266</a>
<b>Chromosome Location</b>	8q24
<b>Pathway</b>	Autoimmune thyroid disease
<b>Function</b>	NOT carboxylesterase activity; chaperone binding; hormone activity; NOT neurexin family protein binding; NOT receptor activity