

Datasheet for 200-301-388**Thyroglobulin Antibody****Overview**

Description:	Anti-Thyroglobulin (MOUSE) Monoclonal Antibody - 200-301-388
Item No.:	200-301-388
Size:	100 µg
Applications:	WB
Reactivity:	Human, Mouse, Rat, Dog
Host Species:	Mouse

Product Details

Background:	Thyroglobulin (Tg) is synthesized by the follicular epithelial cells of the thyroid and secreted from the thyroid gland with the stimulation of TSH and/or thyroid stimulating immunoglobulins. Thyroglobulin is a prognostic marker for Graves` disease. Thyroglobulin antibody has been useful in the positive identification of thyroid carcinomas of the papillary and follicular types.
Synonyms:	mouse anti-Thyroglobulin Antibody, AITD 3 antibody, AITD3 antibody, hTG antibody, TDH3 antibody, Tg antibody, TGN antibody
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	2H11
Format:	IgG1

Target Details

Gene Name:	TG
Reactivity:	Human, Mouse, Rat, Dog
Immunogen Type:	Native Protein
Immunogen:	This protein A purified monoclonal antibody was produced by repeated immunizations with human thyroglobulin protein.

Purity/Specificity: This protein A purified mouse monoclonal antibody reacts specifically with thyroglobulin in human tissues. The antibody recognizes a 330-kDa band corresponding to thyroglobulin. Cross reactivity with thyroglobulin from mouse, rat and dog will occur. Cross reactivity with thyroglobulin from other sources has not been determined.

Relevant Links:

- [UniProtKB - P01266](#)
- [NCBI - P01266.5](#)
- [GeneID - 7038](#)

Application Details

Tested Applications: WB

Application Note: Anti-Thyroglobulin antibody has been tested by western blot and is suitable for the detection of thyroglobulin in ELISA, immunohistochemistry, and immunoprecipitation. For immunohistochemistry, both frozen sections and formalin fixed, paraffin-embedded tissue sections can be used without epitope retrieval or enzyme digestion. This antibody is specific for the 330 kDa thyroglobulin protein. Thyroglobulin shows a cytoplasmic localization. Thyroid tissue can be used as a positive control.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

ELISA: 1:20,000 - 1:100,000

IHC: 1:50 - 1:200

WB: 1:50 - 1:200

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 1.6 mg/ml by UV absorbance at 280 nm

Buffer: 0.02 M Potassium Phosphate, 0.5 M Sodium Chloride, pH 7.2

Preservative: 0.01% (w/v) Sodium Azide

Stabilizer: None

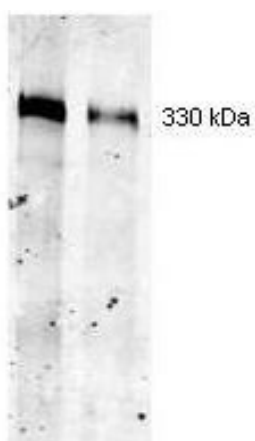
Shipping & Handling

Shipping Condition: Dry Ice

Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images



Western Blot

Western blot using ROCKLAND Immunochemical's Mouse Mab-anti-Thyroglobulin antibody. Separation was achieved under reducing conditions using a pre-cast 5% Tris-HCl gel from Bio-Rad Laboratories. This antibody recognizes a single 330 kDa band corresponding to human thyroglobulin (left lane 3 µg, right lane 3 ng) as confirmed by the position of molecular weight markers (not shown). A 1:400 dilution of Mab anti-Thyroglobulin was used for 2h followed by detection using a 1:5,000 dilution of IRDye™800 conjugated Goat-a-Mouse IgG [H&L] (610-132-121) and visualization using the Odyssey® Infrared Imaging System developed by LI-COR. Other detection systems will yield similar results. IRDye is a trademark of LI-COR, Inc.

Disclaimer

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