

## Mouse TG / Thyroglobulin Monoclonal Antibody | anti-TG antibody

Mouse Monoclonal [clone 2H11] (IgG1) to Human TG / Thyroglobulin

| CATALOG # | HOST  | REACTIVITY             | APPLICATIONS                                                                         |
|-----------|-------|------------------------|--------------------------------------------------------------------------------------|
| AAA51771  | Mouse | Dog, Human, Mouse, Rat | ELISA, Immunoprecipitation, Western Blot, Immunohistochemistry, Immunohistochemistry |

### PRODUCT SYNONYMS

TG / Thyroglobulin; Monoclonal Antibody; Mouse Monoclonal [clone 2H11] (IgG1) to Human TG / Thyroglobulin; Anti-TG / Thyroglobulin Antibody (clone 2H11) IHC-plus; TG; AITD3; TDH3; Thyroglobulin; TGN; Human TG; anti-TG antibody

### PRODUCT SPECIFICATIONS

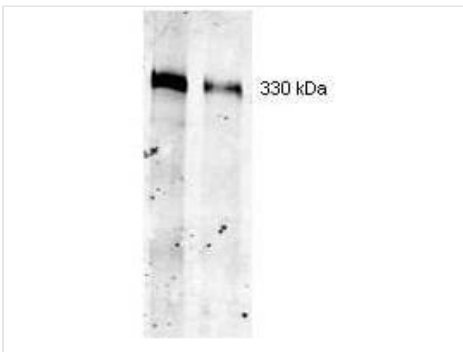
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|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                         | Mouse                                                                                                                                                                                                                                                                                                                 |
| Reactivity                                   | Dog, Human, Mouse, Rat                                                                                                                                                                                                                                                                                                |
| Clonality                                    | Monoclonal                                                                                                                                                                                                                                                                                                            |
| Isotype                                      | IgG1                                                                                                                                                                                                                                                                                                                  |
| Clone Number                                 | 2H11                                                                                                                                                                                                                                                                                                                  |
| Specificity                                  | 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.                               |
| Purity/Purification                          | Protein A Purified                                                                                                                                                                                                                                                                                                    |
| Form/Format                                  | 0.02 M potassium phosphate, 0.5 M NaCl, pH 7.2, 0.01% sodium azide.                                                                                                                                                                                                                                                   |
| Concentration                                | 1.6 mg/ml (varies by lot)                                                                                                                                                                                                                                                                                             |
| Sequence Length                              | 2768                                                                                                                                                                                                                                                                                                                  |
| Applicable Applications for anti-TG antibody | ELISA, IP (Immunoprecipitation), WB (Western Blot), IHC (Immunohistochemistry), IHC (Immunohistochemistry)                                                                                                                                                                                                            |
| Target                                       | TG / Thyroglobulin                                                                                                                                                                                                                                                                                                    |
| Immunogen                                    | TG / Thyroglobulin antibody was raised against human                                                                                                                                                                                                                                                                  |
| Immunogen                                    | TG / Thyroglobulin antibody was raised against this protein A purified monoclonal antibody was produced by repeated immunizations with human thyroglobulin protein                                                                                                                                                    |
| Disclaimer                                   | Due to the highly specific nature of antibodies and antigens, we cannot predict or be held responsible with respect to how this antibody will behave in your systems. Researchers using this antibody should conduct optimization studies to achieve the most optimal result possible for their intended application. |

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|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Recommended Immunohistochemistry Protocol</b> | <p>The following protocol is a recommendation only, and AAA Biotech makes no guarantee of the results:</p> <p><b>Tissue Preparation:</b><br/>Formalin fixation and embedding in paraffin wax.</p> <p><b>Tissue Sectioning:</b><br/>Make 4-um sections and place on pre-cleaned and charged microscope slides. Heat in a tissue-dryingoven for 45 minutes at 60°C.</p> <p><b>Deparaffinization:</b><br/>Wash dry slides in 3 changes of xylene - 5 minutes each @ RT</p> <p><b>Rehydration:</b><br/>Wash slides in 3 changes of 100% alcohol - 3 minutes each @ RT<br/>Wash slides in 2 changes of 95% alcohol - 3 minutes each @ RT<br/>Wash slides in 1 change of 80% alcohol - 3 minutes @ RT<br/>Rinse slides in gentle running distilled water - 5 minutes @ RT</p> <p><b>Antigen retrieval:</b><br/>Steam slides in 0.01 M sodium citrate buffer, pH 6.0 at 99-100°C - 20 minutes<br/>Remove from heat and let stand at room temperature in buffer - 20 minutes<br/>Rinse in 1X TBS with Tween (TBST) -1 minute @ RT</p> <p><b>Immunostaining:</b><br/>(Do not allow tissues to dry at any time during the staining procedure)<br/>Apply a universal protein block - 20 minutes @ RT<br/>Drain protein block from slides, apply diluted primary antibody - 45 minutes @ RT<br/>Rinse slides in 1 X TBST - 1 minute @ RT<br/>Apply a biotinylated secondary antibody appropriate for the primary antibody - 30 minutes @ RT<br/>Rinse slides in 1X TBST -1 minute @ RT<br/>Apply alkaline phosphatase streptavidin - 30 minutes @ RT<br/>Rinse slides in 1X TBST -1 minute @ RT<br/>Apply alkaline phosphatase chromogen substrate - 30 minutes @ RT<br/>Wash slides in distilled water - 1 minute @ RT</p> <p><b>Dehydrate:</b><br/>(This method should only be used if the chromogen substrate is alcohol insoluble (e.g. Vector Red, DAB)<br/>Wash slides in 2 changes of 80% alcohol - 1 minute each @ RT<br/>Wash slides in 2 changes of 95% alcohol - 1 minute each @ RT<br/>Wash slides in 3 changes of 100% alcohol - 1 minute each @ RT<br/>Wash slides in 3 changes of xylene - 1 minute each @ RT<br/>Apply coverslip</p> |
| <b>Preparation and Storage</b>                   | <p>Store vial at -20°C prior to opening. For extended storage aliquot contents and freeze at -20°C or below. Avoid freeze-thaw cycles. This product is stable for several weeks at 4°C as an undiluted liquid. Dilute only prior to immediate use.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |



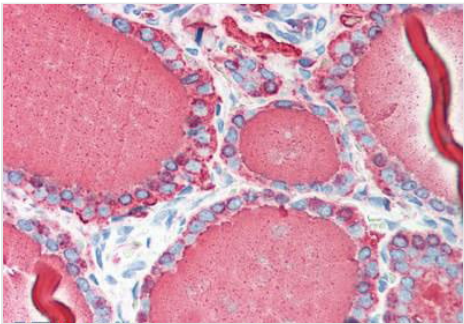
WB (Western Blot)

Western blot of anti-Thyroglobulin antibody at a dilution of 1:400. This antibody recognizes a single 330 kDa band corresponding to human thyroglobulin (left lane 3 mg, right lane 3.0 mg) as confirmed by the position of molecular weight markers (not shown).



WB (Western Blot)

Anti-Thyroglobulin Antibody - Western Blot. Western blot of 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 kD band corresponding to human thyroglobulin (left lane 3 ug, right lane 3.0 ug) 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 1:5000 dilution of IRDye™800 conjugated Goat-a-Mouse IgG [H&L] (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.



IHC (Immunohistochemistry)

Anti-TG / Thyroglobulin antibody IHC of human thyroid. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody concentration 5 ug/ml.

NCBI AND UNIPROT INFORMATION

|                                  |                                                                        |
|----------------------------------|------------------------------------------------------------------------|
| NCBI GI #                        | 55770862                                                               |
| NCBI GeneID                      | 7038                                                                   |
| NCBI Accession #                 | NP_003226.4                                                            |
| NCBI GenBank Nucleotide #        | NM_003235.4                                                            |
| UniProt Accession #              | P01266; O15274; O43899; Q15593; Q15948; Q9NYR1; Q9NYR2; Q9UMZ0; Q9UNY3 |
| NCBI Official Full Name          | thyroglobulin                                                          |
| NCBI Official Synonym Full Names | thyroglobulin                                                          |
| NCBI Official Symbol             | TG                                                                     |
| NCBI Official Synonym Symbols    | TGN; AITD3                                                             |
| NCBI Protein Information         | thyroglobulin                                                          |
| UniProt Protein Name             | Thyroglobulin                                                          |
| UniProt Gene Name                | TG                                                                     |
| UniProt Synonym Gene Names       | Tg                                                                     |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/tg-thyroglobulin-antibody-clone-2h11-immunoprecipitation-western-blot-immunohistochemistry-immunohistochemistry-elisa/51771>