

# Novocastra™ Liquid Mouse Monoclonal Antibody Thyroglobulin

## Product Code: NCL-L-THY

<b>Intended Use</b>	FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.
<b>Specificity</b>	Thyroglobulin
<b>Clone</b>	1D4
<b>Ig Class</b>	IgG2a
<b>Antigen Used for Immunizations</b>	Purified human thyroglobulin.
<b>Hybridoma Partner</b>	Mouse myeloma (NS1/1.Ag4.1).
<b>Preparation</b>	Liquid tissue culture supernatant containing sodium azide. Volume as indicated on vial label.
<b>Effective on Frozen Tissue</b>	Yes.
<b>Effective on Paraffin Wax Embedded Tissue</b>	Yes.
<b>Recommendations on Use</b>	Immunohistochemistry on paraffin sections. <b>Epitope Retrieval:</b> Not recommended. <b>Suggested dilution:</b> 1:200 for 30 minutes at 25 °C. This is provided as a guide and users should determine their own optimal working dilutions. <b>Visualization:</b> Please follow the instructions for use in the Novolink™ Polymer Detection Systems. For further product information or support, contact your local distributor or regional office of Leica Biosystems, or alternatively, visit the Leica Biosystems Web site, <a href="http://www.LeicaBiosystems.com">www.LeicaBiosystems.com</a> <u>The performance of this antibody should be validated when utilized with other manual staining systems or automated platforms.</u>
<b>Positive Controls</b>	Immunohistochemistry: Thyroid.
<b>Staining Pattern</b>	Cytoplasmic and colloid.
<b>Storage and Stability</b>	Store liquid antibody at 2-8 °C. Under these conditions, there is no significant loss in product performance up to the expiry date indicated on the vial label. Prepare working dilutions on the day of use.
<b>Warnings and Precautions</b>	This reagent has been prepared from the supernatant of cell culture. As it is a biological product, reasonable care should be taken when handling it. This reagent contains sodium azide. A Material Safety Data Sheet is available upon request or available from <a href="http://www.LeicaBiosystems.com">www.LeicaBiosystems.com</a>
<b>General Overview</b>	Thyroglobulin is a heavily glycosylated protein of 670 kD composed of two identical subunits and is synthesized by the follicular epithelial cells of the thyroid. Newly synthesized thyroglobulin folds and homodimerizes in the endoplasmic reticulum before its export to the site of iodination, where it serves as the precursor for thyroid hormone synthesis.
<b>General References</b>	Male D K, Champion B R, Pryce G, et al.. Immunology. 54: 419–427 (1985). Shepherd P S, Lazarus C R, Mistry R D, et al.. European Journal of Nuclear Medicine. 10: 291–295 (1985). Chan C T J, Byfield P G H, Himsworth R L, et al.. Clinical and Experimental Immunology. 70: 516–523 (1987).

