Anti-Tyroglobulin / DIA-TGN-OD
Mouse monoclonal anti-thyroid carcinoma marker Clone JGN3

Product Information

Catalog No.:	**DIA-TGN-OD**
Clone:	JGN3
Isotype	Mouse IgG1
Quantity	100µl
Specificity:	Thyroglobulin
Physical State:	Liquid
Species Reactivity:	Human
Positive Control:	Thyroid tissue
Visualization:	cytoplasmic

Presentation:	Purified antibody in Tris pH 7.3-7.7 with 1% BSA, <0.1% NaN3
Applications:	Immunohistochemistry (IHC), standard formalin-fixed paraffin sections
Dilutions:	1:100 - 1:200 IHC-P

(General recommendation, validation of antibody performance/protocol is the responsibility of the end user. Positive/negative controls should be run simultaneously with samples)

Background

Mouse monoclonal anti-Thyroglobulin antibody clone JGN3 is suitable for the immunohistological detection of Thyroglobulin in routine-fixed paraffin embedded tissue sections
Thyroglobulin is present in the thyroid follicular cells. Thyroglobulin is a precursor of thyroid hormones and nearly all thyroid follicular carcinomas stain for thyroglobulin. Poorly differentiated carcinomas and non-thyroid adenocarcinomas do not stain for thyroglobulin. Anti-Thyroglobulin antibody clone JGN3 is a useful tool for identification of papillary and follicular thyroid carcinomas. Moreover, a panel of Anti-Thyroglobulin and Anti-Calcitonin is useful for identifying medullary thyroid carcinomas, whereas a panel of Anti-Thyroglobulin and Anti-TTF1 is useful for distinguishing between primary thyroid and lung neoplasms.

Instructions for Use

Immunohistochemical staining of standard formalin-fixed paraffin sections

Deparaffinize and rehydrate according to standard procedures. Heat induced epitope retrieval (HIER) is required (pH 9-10 for 10-30 minutes). For immunohistochemical detection different techniques can be used: indirect immunoenzyme labeling with a secondary an-tibody conjugate, biotin/(strept)avidin-based detection, soluble enzyme immune complex or polymer-based detection. The antibody can be adapted for use on automated staining instruments.

Intented use / regulatory status

Europe: For in Vitro Diagnostic Use / All other countries: For Research Use only

Storage and Stability

Store at 2-8°C. Do not freeze. The antibody is stable until the date indicated on the label, when stored properly.

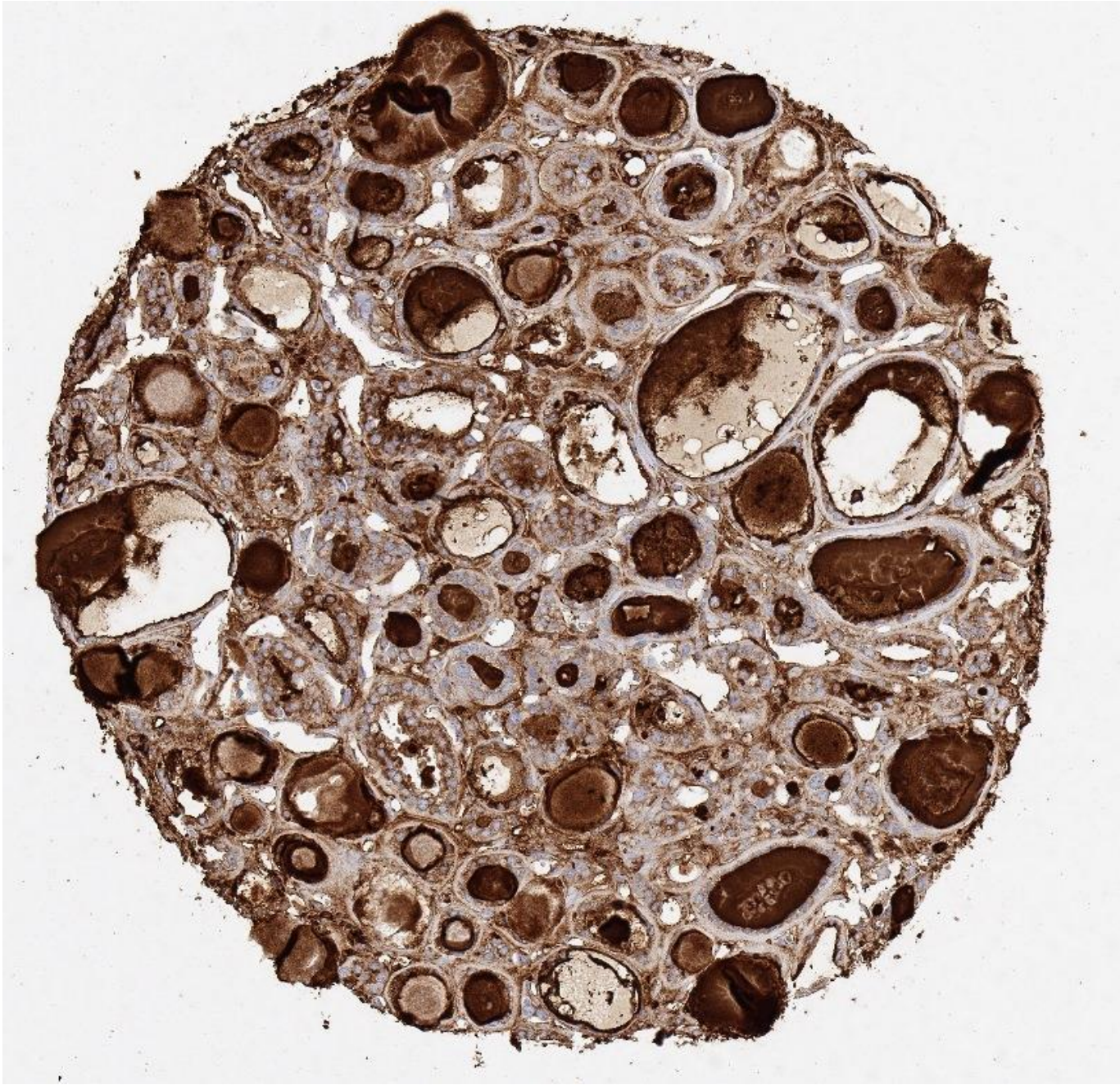
Safety Notes

The material contains <1% sodium azide as preservative. Although the quantity of azide is very small, appropriate care should be taken when handling this material. Avoid skin and eye contact, inhalation and ingestion.

Figure

nohistochemistry of human Thyroglobulin in routine formalin-fixed paraffin-embedded tissue samples

Thyroid adenoma: Moderate cytoplasmic positivity and luminal accumulation of thyroglobulin positive masses.



(picture courtesy of Prof. Guido Sauter, Department of Pathology, University Hospital Eppendorf, Hamburg, Germany)

References

1. Bellet D, et al. Production and in Vitro Utilization of Monoclonal Antibodies to Human Thyroglobulin. J Clin Endocrin Metab. (2000); 56: 530-533.
2. Heffess CS, et al. Metastatic Renal Cell Carcinoma to the Thyroid Gland: A Clinicopathologic Study of 36 Cases. Cancer (2002); 95:1869-1878.
3. Bejarano PA, et al. Thyroid Transcription factor-1, Thyroglobulin, Cytokeratin 7, and Cytokeratin 20 in Thyroid Neoplasms. Appl Immunohistochem Mol Morphol. (2000); 8:189-194.