Datasheet: PHP236

BATCH NUMBER 172921

Description:	NATIVE HUMAN THYROGLOBULIN
Name:	THYROGLOBULIN
Other names:	Tg
Format:	Purified
Product Type:	Purified Protein
Quantity:	1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
ELISA	▪			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using the appropriate negative/positive controls.

Target Species	Human
Product Form	Purified protein from human thyroid glands - liquid
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	None present
Approx. Protein Concentrations	1.0 mg/ml
External Database Links	**UniProt:** P01266 Related reagents **Entrez Gene:** 7038 TG Related reagents

Product Information	**Purified Human Thyroglobulin** is derived from human thyroid glands and is the precursor of thyroxine (T3) and triiodothyronine (T4). Thyroglobulin is a 2768 amino acid secreted glycoprotein with a 19 aa N-terminal signal peptide, made within and targeted to the thyroid. Mutations of the TG gene may lead to the development of Thyroid dyshormonogenesis 3 (TDH3) a condition presenting with predominant goiters on the majority of patients and may lead to varying degrees of neurologic and intellectual defects. Variations in the TG gene may also result in increased susceptibility to the development of Autoimmune thyroid disease 3 (AITD3), an autoimmune disorder comprised of two related diseases of the thyroid: Graves disease and Hashimoto thyroditis (Caturegli *et al.* 2014).
Protein Molecular Weight	660 kDa by chromatography and electrophoresis, under certain conditions the 330 kDa subunit may be observed.
Purity	SDS PAGE: >98%, ultra-pure, IgG low
References	1. Smith, M.J. *et al.* (2018) Activation of thyroid antigen-reactive B cells in recent onset autoimmune thyroid disease patients. J Autoimmun. 89: 82-89.
Storage	Store at -20^{o}C only. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the protein. Should this product contain a precipitate we recommend microcentrifugation before use.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10209 available at: https://www.bio-rad-antibodies.com/SDS/PHP236 Donor material tested and found negative for HIV1 and 2 antibodies, HBsAg and HCV antibodies. As no test can completely guarantee this material to be free of pathogens it should be handled as potentially infectious
Regulatory	For research purposes only

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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