

Thyroglobulin (PB3): sc-73514

BACKGROUND

Thyroglobulin is a large preprotein containing multiple glycosylation sites. Located in the thyroid gland, Thyroglobulin is the precursor of the iodinated thyroid hormones Thyroxine and Triiodothyronine. Thyroglobulin monomers undergo conformational maturation in the endoplasmic reticulum, prior to forming dimers. This dimerization, as well as export of Thyroglobulin to the Golgi complex, has been shown to require Ca²⁺. Defects in Thyroglobulin are known to cause some types of goiter (an enlargement of the thyroid gland). This condition is thought to result from defective dimerization and transport of Thyroglobulin to the Golgi complex.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TG (human) mapping to 8q24.22.

SOURCE

Thyroglobulin (PB3) is a mouse monoclonal antibody raised against Thyroglobulin of human origin.

PRODUCT

Each vial contains 100 µg IgG₁ in 1.0 ml TBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Thyroglobulin (PB3) is recommended for detection of Thyroglobulin of human origin by solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for Thyroglobulin siRNA (h): sc-63346, Thyroglobulin shRNA Plasmid (h): sc-63346-SH and Thyroglobulin shRNA (h) Lentiviral Particles: sc-63346-V.

Molecular Weight of Thyroglobulin: 305/298 kDa.

Positive Controls: human thyroid extract: sc-363782.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.