Best Tools for immunology Research

Thyroglobulin (PT0653) mouse mAb

Catalog No :	YM6224
Reactivity :	Human;
Applications :	IHC;ELISA
Target :	Thyroglobulin
Fields :	>>Thyroid hormone synthesis;>>Autoimmune thyroid disease
Gene Name :	TG
Protein Name :	Thyroglobulin
Human Gene Id :	7038
Human Swiss Prot No :	P01266
Immunogen :	Synthesized peptide derived from human Thyroglobulin AA range: 2700-2768
Specificity :	The antibody can specifically recognize human Thyroglobulin protein.
Formulation :	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source :	Mouse, Monoclonal/IgG1, kappa
Dilution :	IHC 1:200-400. ELISA 1:500-5000
Purification :	The antibody was affinity-purified from ascites by affinity-chromatography using specific immunogen.
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	305kD
Background :	Thyroglobulin (Tg) is a glycoprotein homodimer produced predominantly by the thryroid gland. It acts as a substrate for the synthesis of thyroxine and triiodothyronine as well as the storage of the inactive forms of thyroid hormone

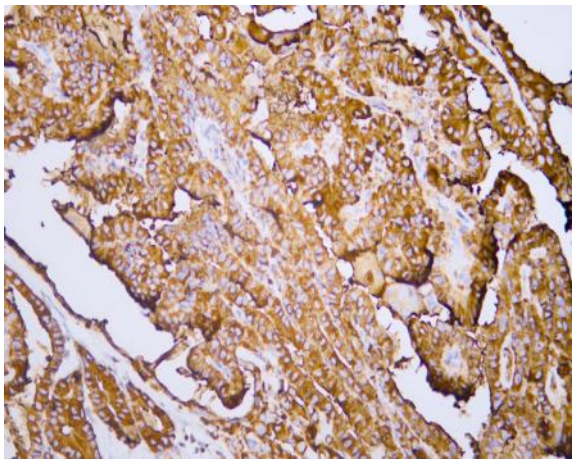
and iodine. Thyroglobulin is secreted from the endoplasmic reticulum to its site of iodination, and subsequent thyroxine biosynthesis, in the follicular lumen. Mutations in this gene cause thyroid dyshormonogenesis, manifested as goiter, and are associated with moderate to severe congenital hypothyroidism. Polymorphisms in this gene are associated with susceptibility to autoimmune thyroid diseases (AITD) such as Graves disease and Hashimoto thryoiditis. [provided by RefSeq, Nov 2009],

Function : disease:Defects in TG are a cause of some forms of goiter [MIM:188450]. Goiter is an enlargement of the thyroid gland. This is sometimes linked to hypothyroidism.,disease:Variations in TG are associated with susceptibility to autoimmune thyroid disease type 3 (AITD3) [MIM:608175]. AITDs including Graves disease (GD) and Hashimoto thyroiditis (HT), are among the most common human autoimmune diseases. They are complex diseases, which are caused by an interaction between susceptibility genes and nongenetic factors, such as infection.,function:Precursor of the iodinated thyroid hormones thyroxine (T4) and triiodothyronine (T3).,online information:Thyroglobulin entry,PTM:Sulfated.,similarity:Belongs to the type-B carboxylesterase/lipase family.,similarity:Contains 11 thyroglobulin type-1 domains.,subunit:Homodimer.,tissue specificity:Thyroid gland specific.,

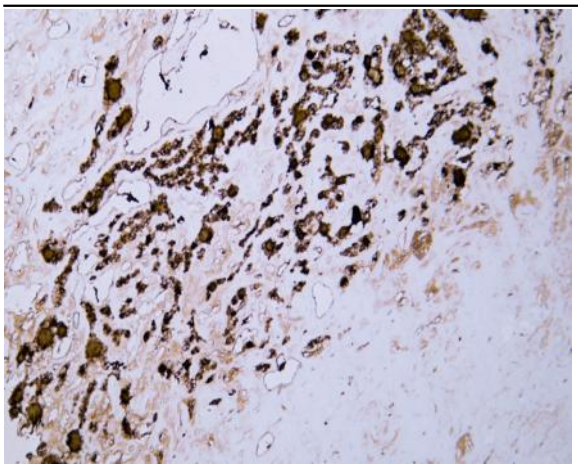
Subcellular Location : Cytoplasmic

Expression : Specifically expressed in the thyroid gland.

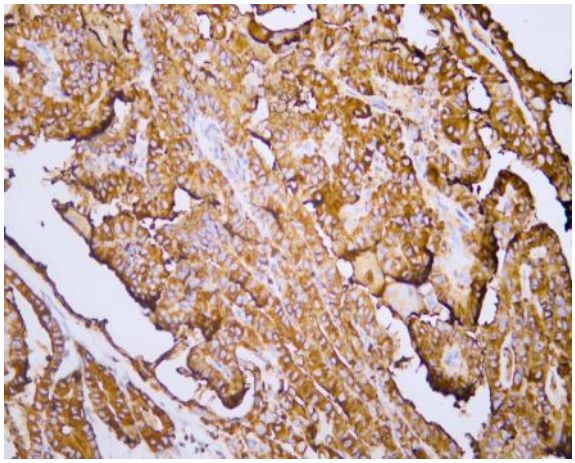
Products Images



Human thyroid carcinoma tissue was stained with Anti-Thyroglobulin (ABT095) Antibody



Human thyroid follicular carcinoma tissue was stained with Anti-Thyroglobulin (ABT095) Antibody



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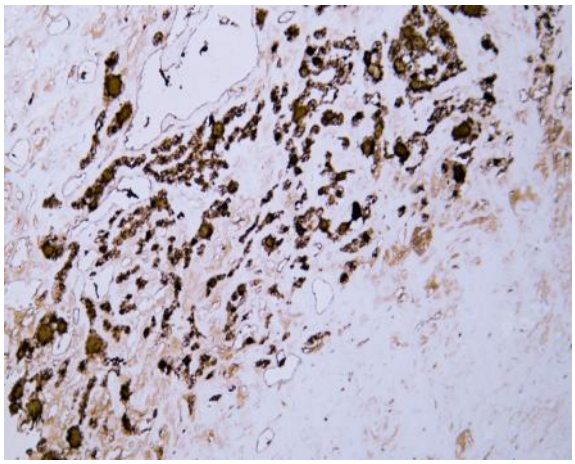

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