

Anti-TBG Antibody (9P797)

Product Details

Ig Type:	Mouse IgG1
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	9P797
Purification:	Protein A

Applications

Application:	ELISA
Recommended	ELISA: 1:1000-1:2000

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein: Human SerpinA7 protein (TMPY-01256)
Antigen Species:	Human
Synonyms:	Thyroxine Binding Globulin;TBG;serpin peptidase inhibitor, clade A (α -1 antiproteinase, antitrypsin), member 7;serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 7;Serpin A7
Biology Area:	Serine Proteases and Regulators

Research Background

Thyroxine-binding globulin, also known as T4-binding globulin, Serpin A7 and TBG, is a secreted protein that belongs to the serpin family. TBG is synthesized primarily in the liver as a 54 kDa protein. TBG is genomically a serpin, although it has no inhibitory function like many other members of this class of proteins. TBG binds thyroid hormone in circulation. It is one of three proteins (along with transthyretin and albumin) responsible for carrying the thyroid hormones thyroxine (T4) and 3,5,3'-triiodothyronine (T3) in the bloodstream. Of these three proteins, TBG has the highest affinity for T4 and T3, but is present in the lowest concentration. Despite its low concentration, TBG carries the majority of T4 in serum. Due to the very low serum concentration of T4 and T3, TBG is rarely more than 25% saturated with its ligand. Unlike transthyretin and albumin, TBG has a single binding site for T4/T3. TBG tests are sometimes used in finding the reason for elevated or diminished levels of thyroid hormone.

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