



Rabbit Anti-Thyroxine Binding Globulin antibody

SL6190R

Product Name:	Thyroxine Binding Globulin
Chinese Name:	甲状腺素结合球蛋白抗体
Alias:	Serpin A7; Serpin A 7; SerpinA7; Serpin-A7; Serpin peptidase inhibitor clade A (alpha 1 antiproteinase antitrypsin) member 7; SERPINA7; T4 binding globulin; TBG; THBG HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,Sheep,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	44kDa
Cellular localization:	Secretory protein
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Thyroxine Binding Globulin:231-330/415
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	Thyroxine Binding Globulin (TBG) is one of three proteins responsible for carrying the thyroid hormones thyroxine (T4) and 3,5,3 triiodothyronine (T3) in the bloodstream, along with transthyretin and albumin. TBG has the highest affinity for T4 and T3, but is present in the lowest concentration of the three proteins. Despite its low concentration,

TBG carries the majority of T4 in serum. Due to the very low serum concentration of T4 & T3, TBG is rarely more than 25% saturated with ligand. Unlike transthyretin and albumin, TBG has a single binding site for T4/T3. Genomically, TBG is a serpin, although it has no inhibitory function like many other members of this class of proteins. TBG is synthesized primarily in the liver.

Function:

Major thyroid hormone transport protein in serum.

Subcellular Location:

Secreted.

Tissue Specificity:

Expressed by the liver and secreted in plasma.

DISEASE:

Defects in SERPINA7 are a cause of thyroxine-binding globulin deficiency (TBG deficiency) [MIM:314200]. Mutations in the SERPINA7 gene can result as a whole spectrum of deficiencies, characterized by either reduced or increased TBG levels in the serum. Patients show, respectively, reduced or elevated protein-bound iodine but are euthyroid.

Similarity:

Belongs to the serpin family.

SWISS:

P05543

Gene ID:

6906

Database links:

[Entrez Gene: 282518](#)Cow

[Entrez Gene: 6906](#)Human

[Entrez Gene: 397125](#)Pig

[Omim: 314200](#)Human

[SwissProt: Q9TT36](#)Cow

[SwissProt: P05543](#)Human

[SwissProt: Q9TT35](#)Pig

[Unigene: 76838](#)Human

	<p>Important Note:</p>
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This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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