



THBG Monoclonal Antibody

Catalog No	BYmab-06277
Isotype	IgG
Reactivity	Human;Rat;Mouse
Applications	WB
Gene Name	SERPINA7 TBG
Protein Name	Thyroxine-binding globulin (Serp A7) (T4-binding globulin)
Immunogen	Synthesized peptide derived from part region of human protein
Specificity	THBG Monoclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	
Observed Band	45kD
Cell Pathway	Secreted.
Tissue Specificity	Expressed by the liver and secreted in plasma.
Function	disease:Defects in SERPINA7 are a cause of 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.,function:Major thyroid hormone transport protein in serum.,polymorphism:Two qualitative TBG variants occur in particular populations. TBG-A is found in 40% of Australian aborigines, it has reduced affinity for thyroxine and triiodothyroxine and increased susceptibility to inactivation by heat or acid. TBG-S ('s' for slow shift on isoelectric focusing) is found in blacks, Eskimos, Melanesians, Polynesians and Indonesians, but not in Caucasians; TBG-S is slightly more thermolabile.,similarity:Belongs to the serpin family.,tissue specificity:Expressed by the liver and secreted in plasma.

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Background

There are three proteins including thyroxine-binding globulin (TBG), transthyretin and albumin responsible for carrying the thyroid hormones thyroxine (T4) and 3,5,3'-triiodothyronine (T3) in the bloodstream. This gene encodes the major thyroid hormone transport protein, TBG, in serum. It belongs to the serpin family in genomics, but the protein has no inhibitory function like many other members of the serpin family. Mutations in this gene result in TBG deficiency, which has been classified as partial deficiency, complete deficiency, and excess, based on the level of serum TBG. Alternatively spliced transcript variants encoding different isoforms have been found, but the full-length nature of these variants has not been determined.[provided by RefSeq, Jun 2012],

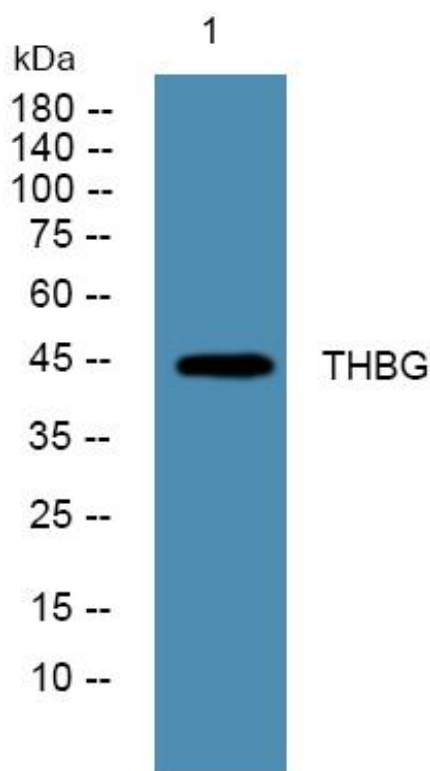
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using THBG Monoclonal Antibody