

SERPINA7 Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1857a**Specification****SERPINA7 Antibody - Product Information**

Application	WB, E
Primary Accession	P05543
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	46.3kDa KDa

Description

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 TGB 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.

Immunogen

Purified recombinant fragment of human SERPINA7 (AA: 168-302) expressed in E. Coli.

Formulation

Purified antibody in PBS with 0.05% sodium azide

SERPINA7 Antibody - Additional Information

Gene ID 6906

Other Names

Thyroxine-binding globulin, Serpin A7, T4-binding globulin, SERPINA7, TBG

Dilution

WB~~1/500 - 1/2000

E~~1/10000

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

SERPINA7 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

SERPINA7 Antibody - Protein Information

Name SERPINA7

Synonyms TBG

Function

Major thyroid hormone transport protein in serum.

Cellular Location

Secreted.

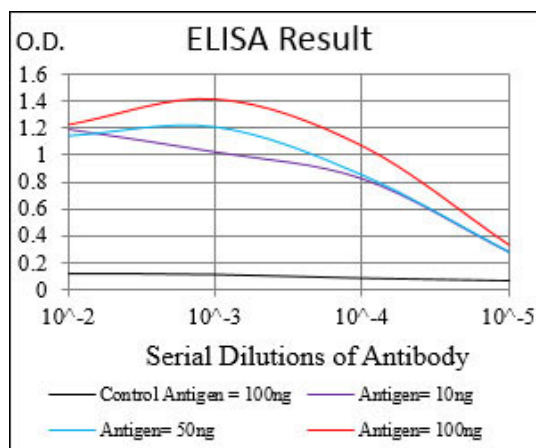
Tissue Location

Expressed by the liver and secreted in plasma.

SERPINA7 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)



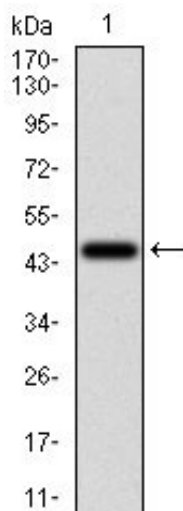


Figure 1: Western blot analysis using SERPINA7 mAb against human SERPINA7 recombinant protein. (Expected MW is 41.4 kDa)

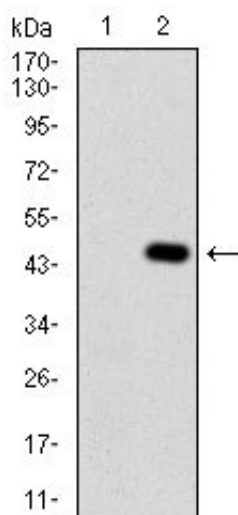


Figure 2: Western blot analysis using SERPINA7 mAb against HEK293 (1) and SERPINA7 (AA: 168-302)-hlgGfc transfected HEK293 (2) cell lysate.

SERPINA7 Antibody - 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. ;

SERPINA7 Antibody - References

1. Gene. 2012 Sep 15;506(2):289-94.
2. Endocr Regul. 2010 Apr;44(2):43-7.