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SERPINA7 Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1858a

Specification

SERPINA7 Antibody - Product Information

Application	**E, WB, IF, FC, IHC**
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
E~~1/10000
WB~~1/500 - 1/2000
IF~~1/200 - 1/1000
FC~~1/200 - 1/400
IHC~~1/200 - 1/1000

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.

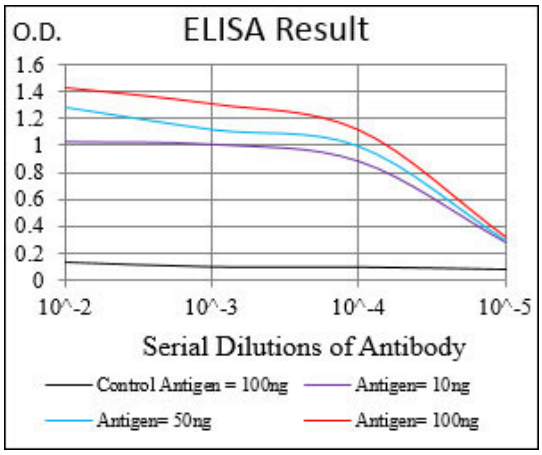
Cellular Location
Secreted.

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 Cytomety
- Cell Culture



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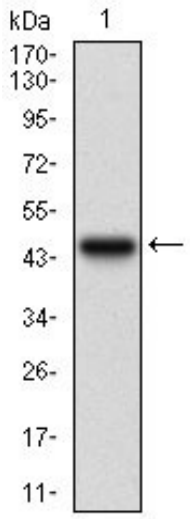

Figure 1: Western blot analysis using SERPINA7 mAb against human SERPINA7 recombinant protein. (Expected MW is 41.4 kDa)

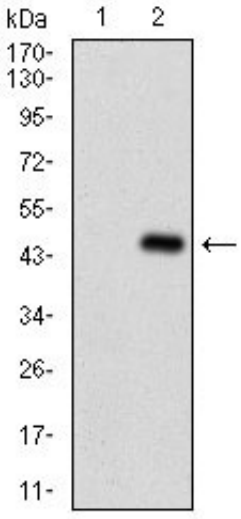

Figure 2: Western blot analysis using SERPINA7 mAb against HEK293 (1) and SERPINA7 (AA: 168-302)-hIgGFc transfected HEK293 (2) cell lysate.

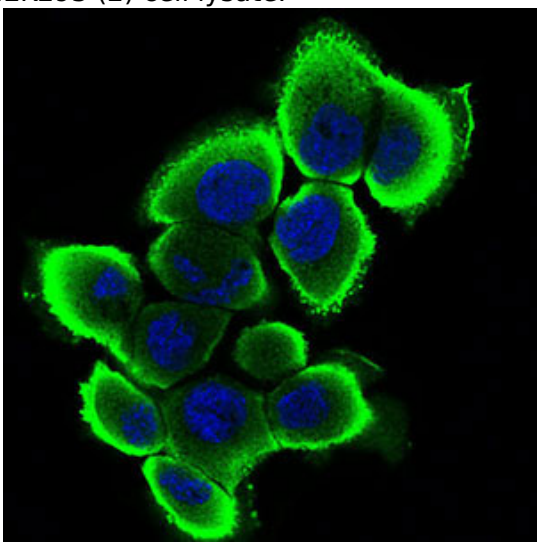

Figure 3: Immunofluorescence analysis of A431 cells using SERPINA7 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye.

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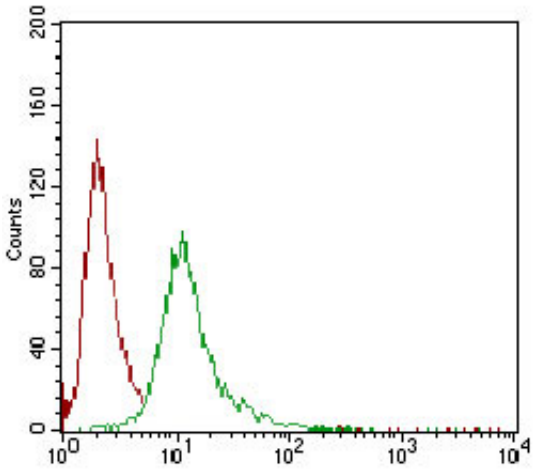

Figure 4: Flow cytometric analysis of A431 cells using SERPINA7 mouse mAb (green) and negative control (red).

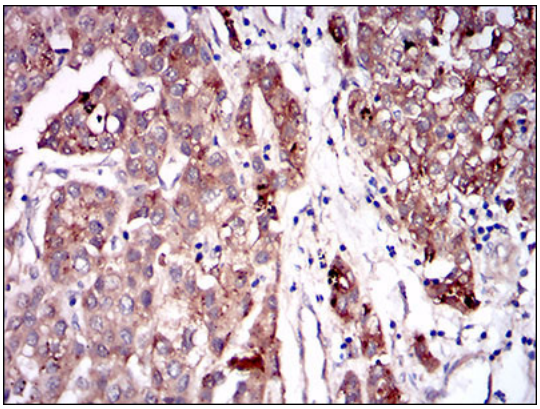

Figure 5: Immunohistochemical analysis of paraffin-embedded liver cancer tissues using SERPINA7 mouse mAb with DAB staining.

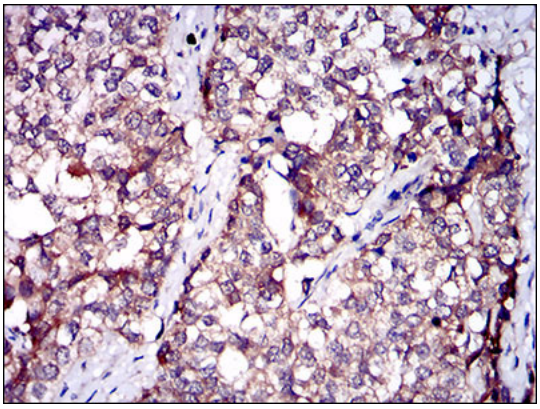

Figure 6: Immunohistochemical analysis of paraffin-embedded bladder cancer tissues using SERPINA7 mouse mAb with DAB staining.

SERPINA7 Antibody - Background

Papilin is an extracellular matrix glycoprotein involved in, thin matrix layers during gastrulation, matrix associated with wandering, phagocytic hemocytes, basement membranes and space-filling matrix during Drosophila development.Determination of its cDNA sequence led to the identification of Caenorhabditis and mammalian papilins. A distinctly conserved 'papilin cassette' of domains at the amino-end of papilins is also the carboxyl-end of the ADAMTS subgroup of secreted, matrix-associated metalloproteinases; this cassette contains one thrombospondin type 1 (TSR) domain, a specific cysteine-rich domain and several partial TSR domains. In vitro, papilin

non-competitively inhibits procollagen N-proteinase, an ADAMTS metalloproteinase. ;

SERPINA7 Antibody - References

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