10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

SERPINA7 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1858a

Product Information

Application	WB, IHC, FC, ICC, E
Primary Accession	P05543
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	5B11E9
Isotype	IgG1
Calculated MW	46325
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

Additional Information

Gene ID	6906
Other Names	Thyroxine-binding globulin, Serpin A7, T4-binding globulin, SERPINA7, TBG
Dilution	WB~~1/500 - 1/2000 IHC~~1/200 - 1/1000 FC~~1/200 - 1/400 ICC~~N/A 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.

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.

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. ;

References

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

Images

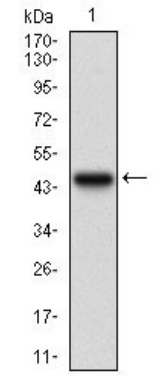


Figure 1: Western blot analysis using SERPINA7 mAb against human SERPINA7 recombinant protein. (Expected MW is 41.4 kDa)

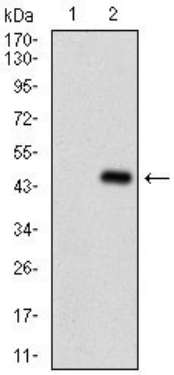
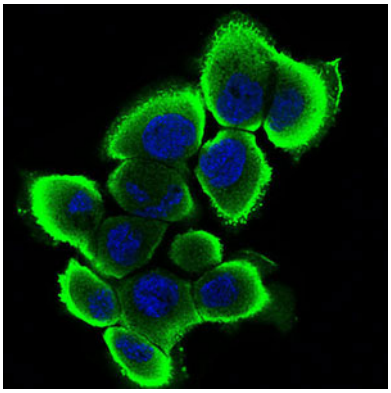


Figure 2: Western blot analysis using SERPINA7 mAb against HEK293 (1) and SERPINA7 (AA: 168-302)-hIgGFc transfected HEK293 (2) cell lysate.

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



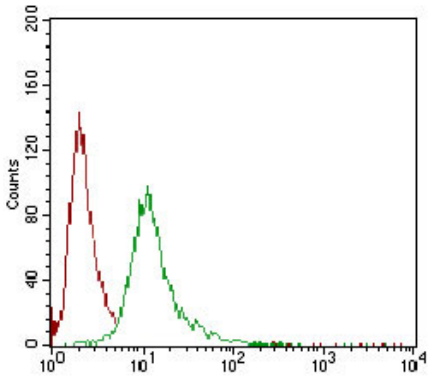


Figure 4: Flow cytometric analysis of A431 cells using SERPINA7 mouse mAb (green) and negative control (red).

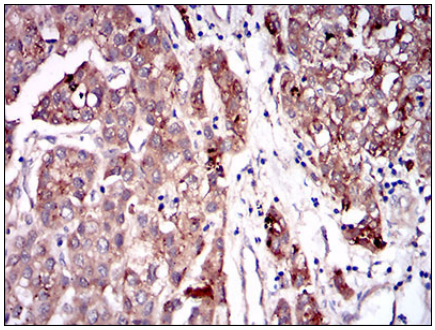


Figure 5: Immunohistochemical analysis of paraffin-embedded liver cancer tissues using SERPINA7 mouse mAb with DAB staining.

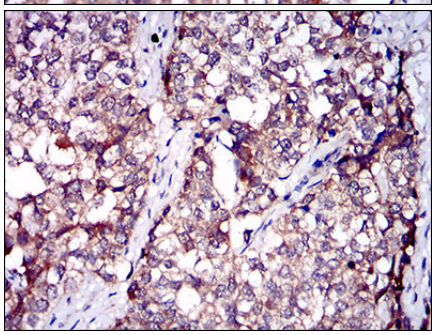


Figure 6: Immunohistochemical analysis of paraffin-embedded bladder cancer tissues using SERPINA7 mouse mAb with DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.