

Rabbit Anti-Thrombomodulin antibody

SL0525R

Product Name:	Thrombomodulin
Chinese Name:	血栓调节蛋白抗体 人名英格兰 人名英格兰 人名英格兰 人名英格兰 人名英格兰 人名英格兰 人名英格兰人姓氏英格兰人名 化乙烯基乙烯 化乙烯基乙烯 化乙烯基乙烯 化乙烯乙烯 化乙烯乙烯乙烯 化乙烯乙烯乙烯 化乙烯乙烯乙烯
Alias:	Thrombomodulin; CD 141; CD141; CD141 antigen; Fetomodulin; THBD; THRM; TM; AHUS 6; AHUS6; BDCA 3; BDCA3; THPH12; TRBM_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Cow,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow- Cyt=3µg/TestICC=1:100-500IF=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:	61kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from mouse Thrombomodulin:301- 400/575 <extracellular></extracellular>
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:	Thrombomodulin, TM is cell surface glycoprotein; plays an important role in the protein C anticoagulant pathway. It located in a vein, artery and capillary endothelial cells on the surface of plasma membrane protein. It is generally believed: TM vascular endothelial injury is an important parameter is the thrombin receptor, known in a variety of normal human tissues, can also be expressed in many tumors, TM may be similar to the E-

cadherin, and is a lectin Like activity of a new class of members of the cell adhesion molecules.

CD141/Thrombomodulin is an exclusively endothelial cell surface glycoprotein that forms a 1:1 complex with thrombin. Binding of thrombin to this high-affinity receptor alters its specificity toward several substrates. The complex activates protein C approximately 1000 times faster than thrombin alone. Activated protein C degrades clotting factors V and VIII; thus, thrombomodulin converts thrombin into a physiologic anticoagulant. Thrombomodulin is also found in the circulatory and urinary systems, the physiologic significance of this is obscure.

Function:

Thrombomodulin is a specific endothelial cell receptor that forms a 1:1 stoichiometric complex with thrombin. This complex is responsible for the conversion of protein C to the activated protein C (protein Ca). Once evolved, protein Ca scissions the activated cofactors of the coagulation mechanism, factor Va and factor VIIIa, and thereby reduces the amount of thrombin generated.

Subcellular Location: Membrane; Single-pass type I membrane protein.

Tissue Specificity:

Endothelial cells are unique in synthesizing thrombomodulin.

Post-translational modifications:

N-glycosylated.

The iron and 2-oxoglutarate dependent 3-hydroxylation of aspartate and asparagine is (R) stereospecific within EGF domains.

DISEASE:

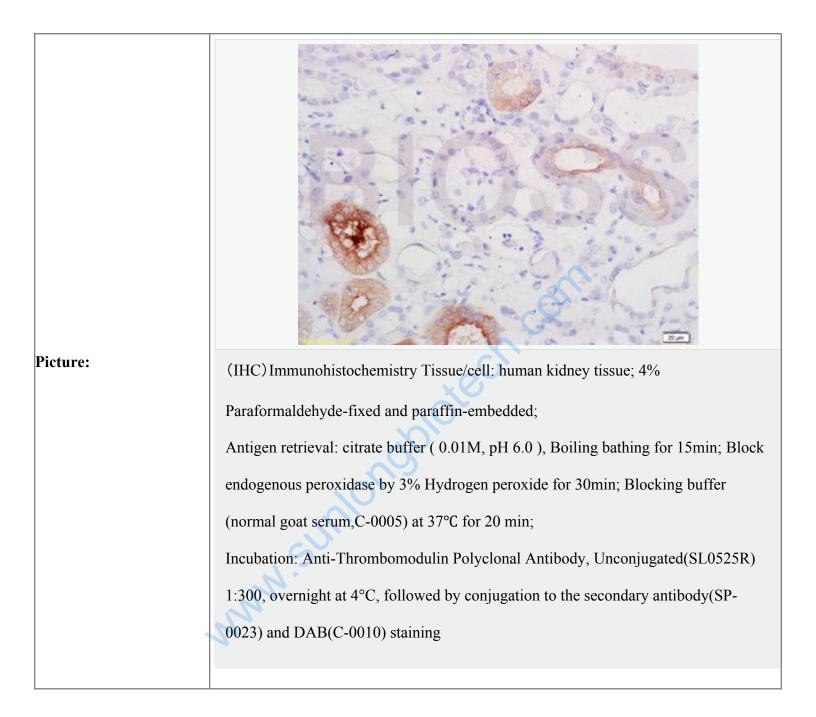
Defects in THBD are the cause of thrombophilia due to thrombomodulin defect (THPH12) [MIM:614486]. A hemostatic disorder characterized by a tendency to thrombosis.

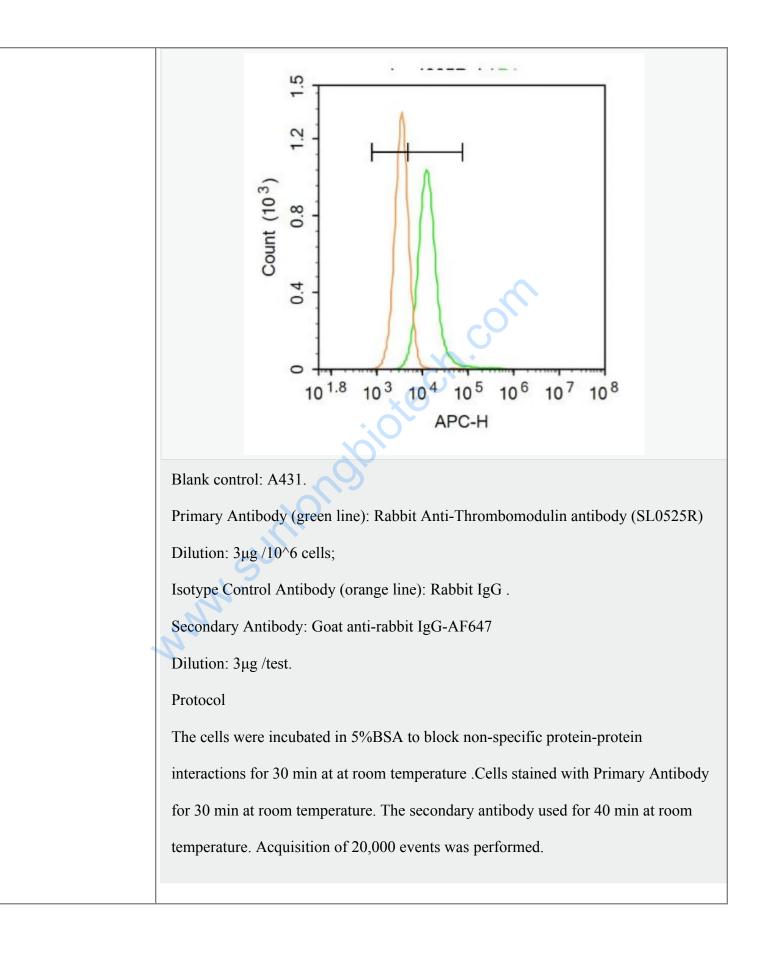
Defects in THBD are a cause of susceptibility to hemolytic uremic syndrome atypical type 6 (AHUS6) [MIM:612926]. An atypical form of hemolytic uremic syndrome. It is a complex genetic disease characterized by microangiopathic hemolytic anemia, thrombocytopenia, renal failure and absence of episodes of enterocolitis and diarrhea. In contrast to typical hemolytic uremic syndrome, atypical forms have a poorer prognosis, with higher death rates and frequent progression to end-stage renal disease. Note=Susceptibility to the development of atypical hemolytic uremic syndrome can be conferred by mutations in various components of or regulatory factors in the complement cascade system. Other genes may play a role in modifying the phenotype.

Similarity:

Contains 1 C-type lectin domain. Contains 6 EGF-like domains.

SWISS:
P07204
Gene ID:
7056
Database links:
Entrez Gene: 7056 Human
<u>Omim: 188040</u> Human
SwissProt: P07204 Human
Unigene: 2030 Human
CO
Important Note: This product as supplied is intended for research use only, not for use in human,
therapeutic or diagnostic applications.
血栓调节蛋白(thrombomodulin,TM)是一种分布于静脉、动脉和毛细vascular
endothelial cell表面的质膜蛋白。
一般认为:TM是血管内皮损伤的重要参数,也是凝血酶的受体,已知在人类多种正
常组织中表达,亦可表达于许多Tumour组织,TM可能类似于钙粘蛋白,是具有凝
集素样活性的新一类Cell adhesion molecule的成员。TM是vascular endothelial
cell膜上的凝血酶受体之一。与凝血酶结合后可降低凝血酶的凝血活性,而加强其激活蛋白。如适性,由工物激活的蛋白。具有结聚作用,因此,取《具体聚中聚中侣
激活蛋白C的活性。由于被激活的蛋白C具有抗凝作用,因此,TM是使凝血酶由促 凝转向抗凝的重要的血管内凝血抑制因子。
凝转间机凝的里安的血管内凝血抑制因于。





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