

For Research Use Only

CD141/Thrombomodulin Polyclonal antibody

Catalog Number: 14318-1-AP

10 Publications



Basic Information

Catalog Number: 14318-1-AP	GenBank Accession Number: BC035602	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 487 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 7056	Recommended Dilutions: WB 1:1000-1:8000 IHC 1:200-1:800
Source: Rabbit	UNIPROT ID: P07204	
Isotype: IgG	Full Name: thrombomodulin	
Immunogen Catalog Number: AG5558	Calculated MW: 60 kDa	
	Observed MW: 105 kDa	

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls: WB : HUVEC cells, human heart tissue, THP-1 cells IHC : human heart tissue, human skin cancer tissue
Cited Applications: WB, IHC, IF	
Species Specificity: human	
Cited Species: human, rat	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

Thrombomodulin, also known as CD141, is an endothelial cell surface glycoprotein that forms a 1:1 complex with the coagulation factor thrombin and plays an important role as a natural anticoagulant. Thrombomodulin serves to convert thrombin from a procoagulant protein into the activator for protein C. Once converted to activated protein C (APC), this protein serves as a major anticoagulant in blood (PMID: 2827310). Thrombomodulin is also located in other cells (keratinocytes, osteoblasts, macrophages,...) where it might be involved in cell differentiation or in inflammation (PMID: 9814688). In humans, thrombomodulin is encoded by the THBD gene. Mutations in this gene are a cause of thromboembolic disease, also known as inherited thrombophilia. Thrombomodulin is glycosylated and has an apparent molecular weight of 75 to 110 kDa (PMID: 1650405; 2827310).

Notable Publications

Author	Pubmed ID	Journal	Application
Dandan Wang	36161694	Environ Toxicol	WB
Lu Zhang	34829436	Diagnostics (Basel)	IHC
Kang An	29547930	Interact Cardiovasc Thorac Surg	IHC

Storage

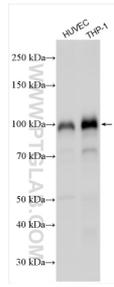
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

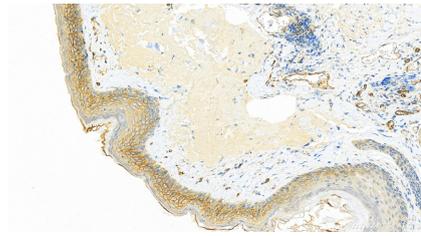
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

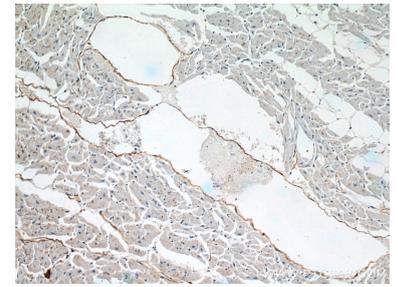
Selected Validation Data



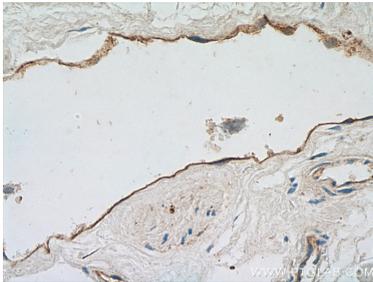
Various lysates were subjected to SDS PAGE followed by western blot with 14318-1-AP (Thrombomodulin antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded skin cancer slide using 14318-1-AP (Thrombomodulin antibody) at dilution of 1:800 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 14318-1-AP (Thrombomodulin antibody at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 14318-1-AP (Thrombomodulin antibody at dilution of 1:200 (under 40x lens).