

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

## 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

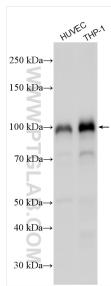
\*\*\* 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:  
T: 1(888) 4PTGLAB (1-888-478-4522) (toll free  
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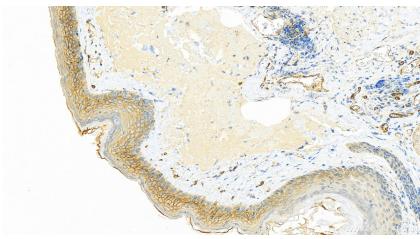
E: proteintech@ptglab.com  
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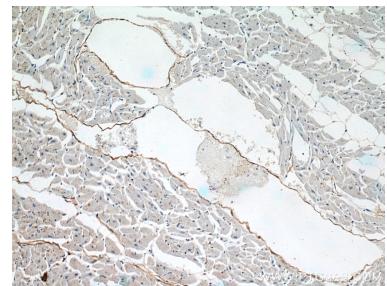
## Selected Validation Data



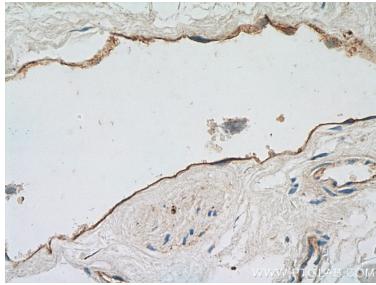
Various lysates were subjected to SDS PAGE followed by western blot with 14318-1-AP (Thrombomodulin antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



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).