

For Research Use Only

# CD141/Thrombomodulin Recombinant antibody, PBS Only

Catalog Number: 83416-4-PBS



## Basic Information

Catalog Number:

83416-4-PBS

Size:

1 mg/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM\_000361.3

GeneID (NCBI):

7056

UNIPROT ID:

P07204

Full Name:

thrombomodulin

Calculated MW:

60 kDa

Observed MW:

100-105 kDa

Purification Method:

Protein A purification

CloneNo.:

240365D1

## Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Species Specificity:

human

## 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).

## Storage

Storage:

Store at -80°C.

The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:

PBS Only

For technical support and original validation data for this product please contact:

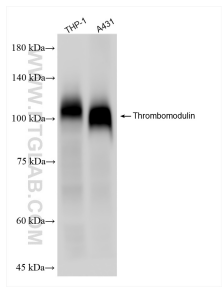
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

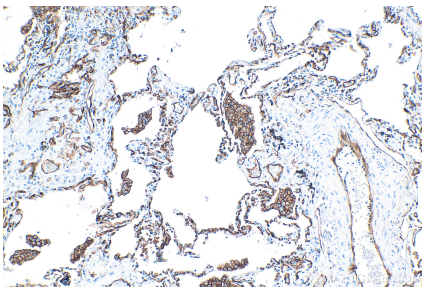
W: [ptgcn.com](http://ptgcn.com)

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

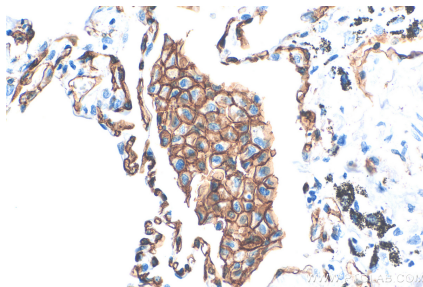
Selected Validation Data



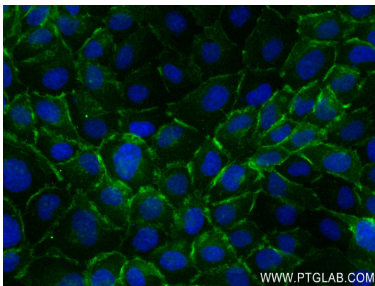
Various lysates were subjected to SDS PAGE followed by western blot with 83416-4-RR (Thrombomodulin antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83416-4-PBS in a different storage buffer formulation.



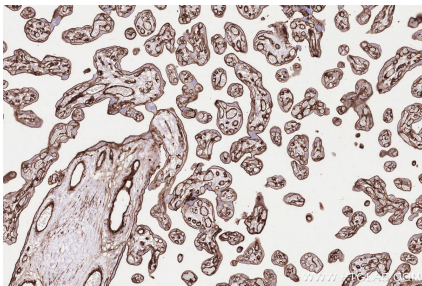
Immunohistochemical analysis of paraffin-embedded human lung tissue slide using 83416-4-RR (Thrombomodulin antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83416-4-PBS in a different storage buffer formulation.



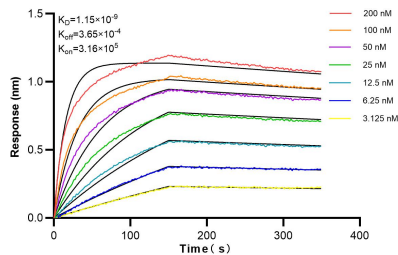
Immunohistochemical analysis of paraffin-embedded human lung tissue slide using 83416-4-RR (Thrombomodulin antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83416-4-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed A431 cells using Thrombomodulin antibody (83416-4-RR, Clone: 240365D1 ) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 83416-4-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 83416-4-RR (CD141/Thrombomodulin antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83416-4-PBS in a different storage buffer formulation.



Bilayer interferometry (BLI) kinetic assays of 83416-4-RR against Human CD141/Thrombomodulin were performed. The affinity constant is 1.15 nM.