

CD141/Thrombomodulin Recombinant antibody

Catalog Number: 84412-3-RR

Basic Information

Catalog Number:

84412-3-RR

Size:

1000 ug/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM_009378.3

GeneID (NCBI):

21824

UNIPROT ID:

P15306

Full Name:

thrombomodulin

Calculated MW:

62kDa

Observed MW:

105 kDa

Purification Method:

Protein A purification

CloneNo.:

241730D4

Recommended Dilutions:

WB 1:2000-1:10000

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IF/ICC, ELISA

Species Specificity:

mouse

Positive Controls:

WB : mouse placenta tissue, mouse lung tissue

IF/ICC : bEnd.3 cells,

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 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:

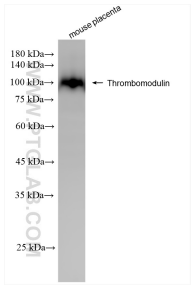
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

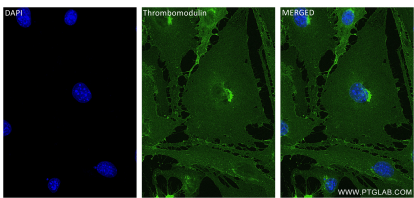
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

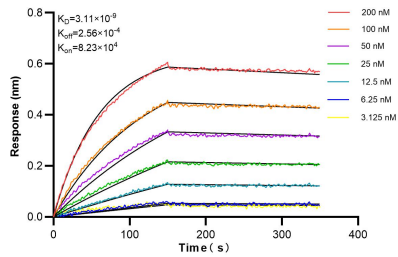
Selected Validation Data



mouse placenta tissue was subjected to SDS PAGE followed by western blot with 84412-3-RR (CD141/Thrombomodulin antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed bEnd.3 cells using CD141/Thrombomodulin antibody (84412-3-RR, Clone: 241730D4) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Biolayer interferometry (BLI) kinetic assays of 84412-3-RR against Mouse CD141/Thrombomodulin were performed. The affinity constant is 3.11 nM.