For Research Use Only

Mouse CD141/Thrombomodulin Recombinant antibody, PBS Only (Capture)



Catalog Number:84412-3-PBS

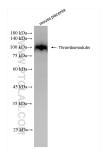
Size:	NM_009378.3	Protein A purification
100ug , Concentration: 1 mg/ml by Nanodrop; Source: Rabbit Isotype: IgG	GeneID (NCBI): 21824 UNIPROT ID: P15306 Full Name: thrombomodulin Calculated MW: 62kDa Observed MW: 105 kDa	CloneNo.: 241730D4
Tested Applications: WB, IF/ICC, Cytometric bead array, S Indirect ELISA, Sample test	andwich ELISA,	
Species Specificity: mouse		
84412-3-PBS targets CD141/Thromb	omodulin as part of a matched antil	body pair:
MP01300-1: 84412-3-PBS capture and 84412-2-PBS detection (validated in Cytometric bead array)		
Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.		
This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications.Antibody use should be optimized by the end user for each application and assay.		
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: Store at -80°C. Storage Buffer: PBS Only		
	Source: Rabbit Isotype: IgG Tested Applications: WB, IF/ICC, Cytometric bead array, S Indirect ELISA, Sample test Species Specificity: mouse 84412-3-PBS targets CD141/Thromb MP01300-1: 84412-3-PBS capture and MP01300-2: 84412-3-PBS capture and Unconjugated rabbit recombinant m concentration of 1 mg/mL, ready for technology. Recombinant production security of supply. This conjugation ready format make assays requiring matched pairs, mas optimized by the end user for each a Thrombomodulin, also known as CD the coagulation factor thrombin and convert thrombin from a procoagular (APC), this protein serves as a major other cells (keratinocytes, osteoblass inflammation (PMID: 9814688). In hu are a cause of thromboembolic disea and has an apparent molecular weig Storage: Storage Buffer:	Source: P15306 Rabbit Full Name: Isotype: thrombomodulin IgG Calculated MW: 62kDa Observed MW: 105 kDa Diserved MW: 105 kDa Tested Applications: WB, IF/ICC, Cytometric bead array, Sandwich ELISA, Indirect ELISA, Sample test Species Specificity: mouse 84412-3-PBS targets CD141/Thrombomodulin as part of a matched antil MP01300-1: 84412-3-PBS capture and 84412-1-PBS detection (validated MP01300-2: 84412-3-PBS capture and 84412-1-PBS detection (validated Unconjugated rabbit recombinant monoclonal antibody in PBS only (BS), concentration of 1 mg/mL, ready for conjugation. Created using Proteint technology. Recombinant production enables unrivalled batch-to-batch security of supply. This conjugation ready format makes antibodies ideal for use in many a assays requiring matched pairs, mass cytometry, and multiplex imaging optimized by the end user for each application and assay. Thrombomodulin, also known as CD141, is an endothelial cell surface g the coagulation factor thrombin and plays an important role as a natura convert thrombin from a procoagulant protein into the activator for protein trecols (keratinocytes, osteoblasts, macrophages,) where it might infammation (PMID: 9814688). In humans, thrombomodulin is encoded are a cause of thromboembolic disease, also known as inherited thromb and has an apparent molecular weight of 75 to 110 kDa (PMID: 1650405

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.comW: ptglab.comW: ptglab.com

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

Selected Validation Data

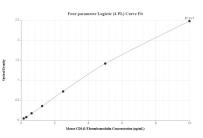
formulation.



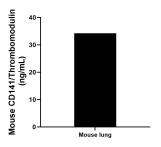
mouse placenta tissue was subjected to SDS PAGE followed by western blot with 84412-3-RR (CD141/Thrombomodulin antibody) at dilution of

1:5000 incubated at room temperature for 1.5 hours.

This data was developed using the same antibody clone with 84412-3-PBS in a different storage buffer

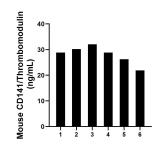


Sandwich ELISA standard curve of MP01300-2, Mouse CD141/Thrombomodulin Recombinant Matched Antibody Pair - PBS only. 84412-3-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Eg1139. 84412-1-PBS was HRP conjugated as the detection antibody. Range: 0.156-10 ng/mL

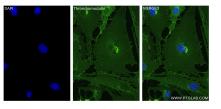


Mouse lung, cut into 1-2 mm pieces, wa scultured for 4 daysin 25-30 mL of RPMI supplemented with 10% fetal bovine serum. The cell culture supernate was removed, assayed for

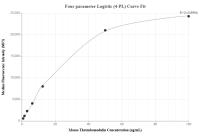
CD141/Thrombomodulin, and measured 34.22 ng/mL.



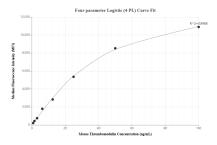
Serum of six mice was measured. The mouse CD141/Thrombomodulin concentration of detected samples was determined to be 28.01 ng/mL with a range of 21.90 - 32.07 ng/mL

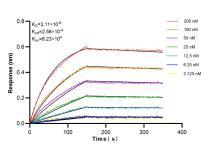


Immunofluorescent analysis of (4% PFA) fixed bEnd.3 cells using CD141/Thrombomodulin antibody (84412-3-RR, Clone: 241730D4) at dilution of 1:400 and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 84412-3-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP01300-1, MOUSE CD141/Thrombomodulin Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 84412-3-PBS. Detection antibody: 84412-2-PBS. Standard: Eg1139. Range: 0.781-100 ng/mL





Cytometric bead array standard curve of MP01300-2, MOUSE CD141/Thrombomodulin Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 84412-3-PBS. Detection antibody: 84412-1-PBS. Standard: Eg1139. Range: 0.781-100 ng/mL Biolayer interferometry (BLL) kinetic assays of 84412-3-RR against Mouse CD141/Thrombomodulin were performed. The affinity constant is 3.11 nM.