For Research Use Only

CD141/Thrombomodulin Recombinant antibody

Catalog Number:83416-4-RR



Basic Information	Catalog Number:GenBank Accession83416-4-RRNM_000361.3		Number:	Purification Method: Protein A purfication	
	Size: 1000 ug/ml	Genel D (NCBI): 7056		CloneNo.: 240365D1	
	Source: Rabbit Isotype: IgG	UNIPROT ID: P07204		Recommended Dilutions: WB 1:5000-1:50000	
		Full Name: thrombomodulin Calculated MW: 60 kDa		IHC 1:500-1:2000 IF/ICC 1:125-1:500	
					Observed MW: 100-105 kDa
		Applications	Tested Applications: WB, IHC, IF/ICC, ELISA Species Specificity: human Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0		Positive Controls:
WB : THP-1 cells, A431 cells					
IHC : human lung tissue, human cervical squamous cancer tissue, human lung squamous cell carcinoma tissue, human placenta tissue					
					IF/ICC : A431 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 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 -20°C. Stable for one y Storage Buffer: PBS with 0.02% sodium azide Aliquoting is unnecessary for -	and 50% glycerol pH 7.3.			

For technical support and original validation data for this product please contact:T: 4006900926E: Proteintech-CN@ptglab.comW: ptgcn.com

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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.



Immunohistochemical analysis of paraffinembedded human lung tissue slide using 83416-4-RR (Thrombornodulin antibody) at dilution of 1:1000 (under 10x Lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded 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).



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). Immunohistochemical analysis of paraffinembedded 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).



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