

Anti-Thrombomodulin / CD141 Rabbit Monoclonal Antibody

Catalog # ABO16292

Product Information

Application	WB, IHC, FC
Primary Accession	P15306
Host	Rabbit
Isotype	IgG
Reactivity	Rat, Mouse
Clonality	Monoclonal
Format	Liquid
Description	Anti-Thrombomodulin / CD141 Rabbit Monoclonal Antibody . Tested in WB, IHC, Flow Cytometry applications. This antibody reacts with Mouse, Rat.

Additional Information

Gene ID	21824
Other Names	Thrombomodulin, TM, Fetomodulin, CD141, Thbd
Calculated MW	61868
Application Details	WB 1:500-1:2000 IHC 1:50-1:200 FC 1:50
Source	Eukaryota
Contents	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Clone Names Immunogen	Clone: 28T28 A synthesized peptide derived from human Thrombomodulin / CD141
Purification	Affinity-chromatography
Storage	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

Protein Information

Name	Thbd
Function	Endothelial cell receptor that plays a critical role in regulating several physiological processes including hemostasis, coagulation, fibrinolysis,

inflammation, and angiogenesis. Acts as a cofactor for thrombin activation of protein C/PROC on the surface of vascular endothelial cells leading to initiation of the activated protein C anticoagulant pathway. Also accelerates the activation of the plasma carboxypeptidase B2/CPB2, which catalyzes removal of C-terminal basic amino acids from its substrates including kinins or anaphylatoxins leading to fibrinolysis inhibition (By similarity). Plays critical protective roles in changing the cleavage specificity of protease-activated receptor 1/PAR1, inhibiting endothelial cell permeability and inflammation (PubMed:[38174561](#)). Suppresses inflammation distinctly from its anticoagulant cofactor activity by sequestering HMGB1 thereby preventing it from engaging cellular receptors such as RAGE and contributing to the inflammatory response (By similarity).

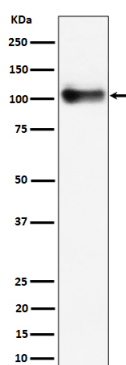
Cellular Location

Membrane {ECO:0000250|UniProtKB:P07204}; Single- pass type I membrane protein {ECO:0000250|UniProtKB:P07204}

Tissue Location

Endothelial cells are unique in synthesizing thrombomodulin

Images



Western blot analysis of Thrombomodulin / CD141 expression in mouse lung cell lysate.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.