10320 Camino Santa Fe, Suite G
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Anti-Thrombomodulin / CD141 Rabbit Monoclonal Antibody

Catalog # ABO16292

Specification

Anti-Thrombomodulin / CD141 Rabbit Monoclonal Antibody - 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.

Anti-Thrombomodulin / CD141 Rabbit Monoclonal Antibody - Additional Information

Gene ID 21824

Other Names
Thrombomodulin, TM, Fetomodulin, CD141, Thbd

Calculated MW
105 kDa KDa

Application Details
WB 1:500-1:2000
IHC 1:50-1:200
FC 1:50

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.

Immunogen
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.**

Anti-Thrombomodulin / CD141 Rabbit Monoclonal Antibody - Protein Information

Name Thbd

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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}

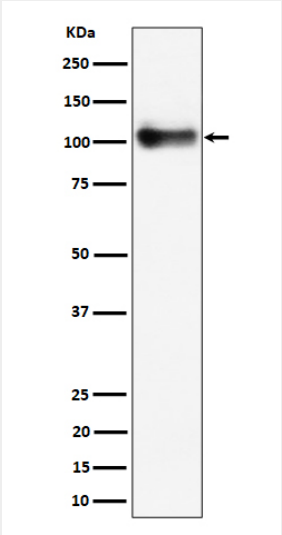
Tissue Location
Endothelial cells are unique in synthesizing thrombomodulin

Anti-Thrombomodulin / CD141 Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-Thrombomodulin / CD141 Rabbit Monoclonal Antibody - Images



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