

Thrombomodulin Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP6779c**Specification**

Thrombomodulin Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [P07204](#)**Thrombomodulin Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 7056**Other Names**

Thrombomodulin, TM, Fetomodulin, CD141, THBD, THRM

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP6779c](/products/AP6779c) was selected from the Center region of human Thrombomodulin. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

Thrombomodulin Antibody (Center) Blocking Peptide - Protein Information**Name** THBD**Synonyms** THRM**Function**

Endothelial cell receptor that plays a critical role in regulating several physiological processes including hemostasis, coagulation, fibrinolysis, inflammation, and angiogenesis (PubMed: [10761923](http://www.uniprot.org/citations/10761923)). 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 (PubMed: [29323190](http://www.uniprot.org/citations/29323190), PubMed: [33836597](http://www.uniprot.org/citations/33836597), PubMed: [9395524](http://www.uniprot.org/citations/9395524)). 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 (PubMed:26663133). Plays critical protective roles in changing the cleavage specificity of protease-activated receptor 1/PAR1, inhibiting endothelial cell permeability and inflammation (By similarity). 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 (PubMed:15841214).

Cellular Location

Membrane; Single-pass type I membrane protein.

Tissue Location

Endothelial cells are unique in synthesizing thrombomodulin

Thrombomodulin Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

Thrombomodulin Antibody (Center) Blocking Peptide - Images**Thrombomodulin Antibody (Center) Blocking Peptide - Background**

Thrombomodulin is an endothelial-specific type I membrane receptor that binds thrombin. This binding results in the activation of protein C, which degrades clotting factors Va and VIIIa and reduces the amount of thrombin generated.

Thrombomodulin Antibody (Center) Blocking Peptide - References

Kajimoto,H., et.al., Circ. J. 73 (9), 1705-1710 (2009)