Thrombomodulin / CD141 (Endothelial Cell Marker) Antibody
Mouse Monoclonal Antibody [Clone THBD/1782]

| Catalog No	Format	Size
7056-MSM2-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
7056-MSM2-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
7056-MSM2-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

| Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

Product Details

Clone	THBD/1782
Gene Name	THBD
Immunogen	Recombinant fragment (around aa 69-194) of human Thrombomodulin (CD141) protein (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2a / Kappa
Mol. Weight of Antigen	100kDa
Cellular Localization	Membrane
Species Reactivity	Human
Positive Control	Angiosarcoma, Bladder or Cervical Carcinoma., THP1 cells. Placenta

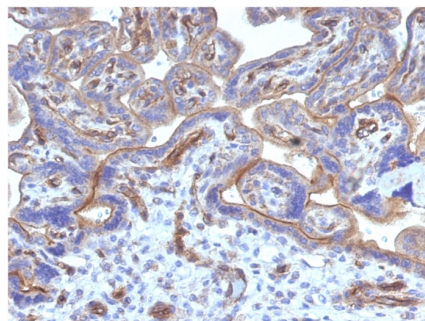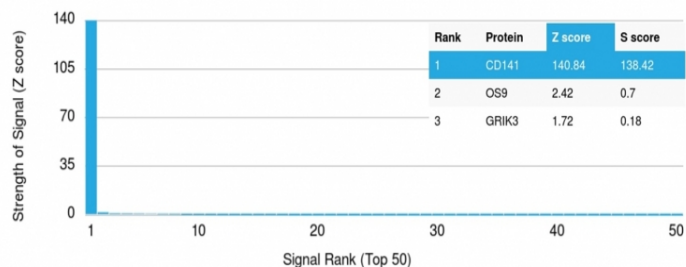*Optimal dilution for a specific application should be determined.*

Product Images for Thrombomodulin / CD141 (Endothelial Cell Marker) Antibody
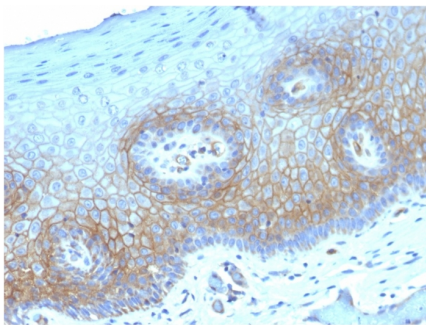
Formalin-fixed, paraffin-embedded human CervicalCarcinoma stained with Thrombomodulin/CD141 Mouse Monoclonal Antibody (THBD/1782).
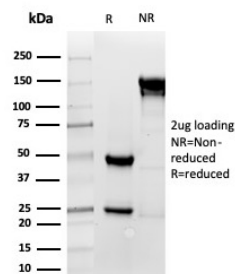
SDS-PAGE Analysis of Purified Thrombomodulin Mouse Monoclonal Antibody (THBD/1782). Confirmation of Purity and Integrity of Antibody.

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Analysis of Protein Array containing >19,000 full-length human proteins using Thrombomodulin/CD141 Mouse Monoclonal Antibody (THBD/1782) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.

Formalin-fixed, paraffin-embedded human Placenta stained with Thrombomodulin/CD141 Mouse Monoclonal Antibody (THBD/1782).

Specificity & Comments

It recognizes a protein of 75kDa, identified as Thrombomodulin. Thrombomodulin is a transmembrane glycoprotein with natural anticoagulant properties. It is normally expressed by a restricted number of cells, such as endothelial and mesothelial cells. In addition, synovial lining and syncytio-trophoblasts of placenta also express thrombomodulin. This protein is present in almost all of benign vascular tumors and majority of malignant vascular tumors (Kaposi's sarcoma, angiosarcoma, and epithelioid hemangioendothelioma). Hence, anti-thrombomodulin serves as a sensitive marker for lymphatic endothelial cells and their tumors. Recently, thrombomodulin antibody has been used for mesothelial cells and malignant mesotheliomas.

Supplied As

200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

Cardiovascular, Endothelial Cell Marker

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

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