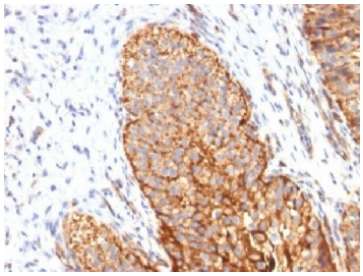
Thrombomodulin Antibody / CD141 [clone THBD/1591] (V3407)

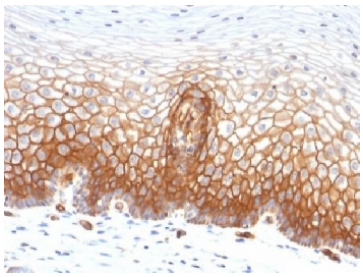
Catalog No.	Formulation	Size
V3407-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3407-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3407SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

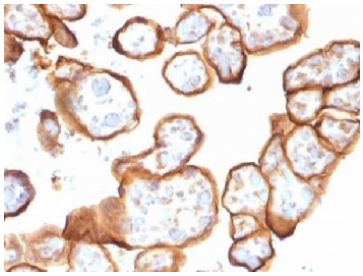
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	THBD/1591
Purity	Protein G affinity chromatography
Buffer	1X PBS, pH 7.4
UniProt	P07204
Localization	Cell surface, cytoplasmic
Applications	ELISA : 2-4ug/ml (order BSA/azide-free format) Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This Thrombomodulin antibody is available for research use only.



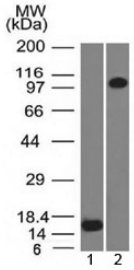
IHC testing of FFPE human bladder carcinoma with Thrombomodulin antibody (clone THBD/1591). HIER: boil tissue sections in 10mM Tris buffer with 1mM EDTA, pH 9, for 10-20 min followed by cooling at RT for 20 min.



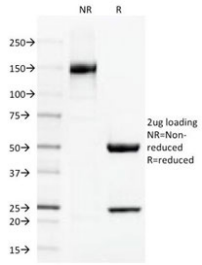
IHC testing of FFPE human cervical carcinoma with Thrombomodulin antibody (clone THBD/1591). HIER: boil tissue sections in 10mM Tris buffer with 1mM EDTA, pH 9, for 10-20 min followed by cooling at RT for 20 min.



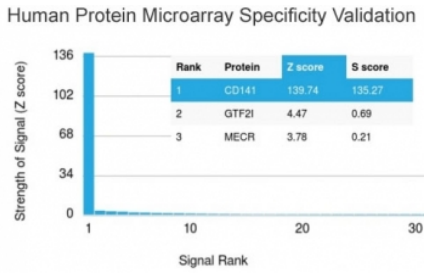
IHC testing of FFPE human placenta with Thrombomodulin antibody (clone THBD/1591). HIER: boil tissue sections in 10mM Tris buffer with 1mM EDTA, pH 9, for 10-20 min followed by cooling at RT for 20 min.



Western blot testing of 1) recombinant partial protein and 2) human ThP1 lysate with Thrombomodulin antibody (clone THBD/1591). Expected molecular weight ~60/100 kDa (unmodified/glycosylated).



SDS-PAGE Analysis of Purified, BSA-Free Thrombomodulin Antibody (clone THBD/1591). Confirmation of Integrity and Purity of the Antibody.



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using Thrombomodulin antibody (clone THBD/1591). These results demonstrate the foremost specificity of the THBD/1591 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.

Description

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.

Application Notes

The concentration stated for each application is a general starting point. Variations in protocols, secondaries and substrates may require the Thrombomodulin antibody to be titered up or down for optimal performance.

Immunogen

Human recombinant partial protein corresponding to amino acids 69-194 was used as the immunogen for this Thrombomodulin antibody.

Storage

Store the Thrombomodulin antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).