bs-0525R **[Primary Antibody]**

Thrombomodulin Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 21824 **SWISS:** P15306

Target: Thrombomodulin

Immunogen: KLH conjugated synthetic peptide derived from mouse Thrombomodulin: 301-400/575. < Extracellular >

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: Thrombomodulin, TM is cell surface glycoprotein; plays an important role in the protein C anticoagulant pathway. It located in a vein, artery and capillary endothelial cells on the surface of plasma membrane protein. It is generally believed: TM vascular endothelial injury is an important parameter is the thrombin receptor, known in a variety of normal human tissues, can also be expressed in many tumors, TM may be similar to the E-cadherin,and is a lectin Like activity of a new class of members of the cell adhesion molecules.
CD141/Thrombomodulin is an exclusively endothelial cell surface glycoprotein that forms a 1:1 complex with thrombin. Binding of thrombin to this high-affinity receptor alters its specificity toward several substrates. The complex activates protein C approximately 1000 times faster than thrombin alone. Activated protein C degrades clotting factors V and VIII; thus, thrombomodulin converts thrombin into a physiologic anticoagulant.
Thrombomodulin is also found in the circulatory and urinary systems, the physiologic significance of this is obscure.

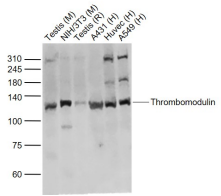
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Human, Mouse, Rat (predicted: Cow, Dog)

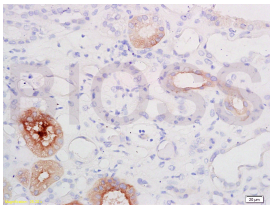
Predicted MW.: 61 kDa

Subcellular Location: Cell membrane

VALIDATION IMAGES



Sample: Lane 1: Testis (Mouse) Tissue Lysate at 40 ug Lane 2: NIH/3T3 (Mouse) Cell Lysate at 30 ug Lane 3: Testis (Rat) Tissue Lysate at 40 ug Lane 4: A431 (Human) Cell Lysate at 30 ug Lane 5: Huvec (Human) Cell Lysate at 30 ug Lane 6: A549 (Human) Cell Lysate at 30 ug Primary: Anti-Thrombomodulin (bs-0525R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 61 kD Observed band size: 120 kD



（IHC）Immunohistochemistry Tissue/cell: human kidney tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-Thrombomodulin Polyclonal Antibody, Unconjugated(bs-0525R) 1:300, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

SELECTED CITATIONS

- **[IF=6.1]** Jun Zhang. et al.Parthenolide improves sepsis-induced coagulopathy by inhibiting mitochondrial-mediated apoptosis in vascular endothelial cells through BRD4/BCL-xL pathway.JOURNAL OF TRANSLATIONAL MEDICINE.2025 Jan 17;23(1):80. ;Rat. 39825405
- **[IF=6.1]** Yiyan Xie. et al. Portable pH meter-based competitive immunoassay of E-selectin using urease-encapsulated metal-organic frameworks. TALANTA. 2025 Jan;:127613 ;. 39862514
- **[IF=5.3]** Luo Peng. et al. Microvolumetric determination of thrombomodulin based on competitive immunoreaction using a portable glucometer. MICROCHIM ACTA. 2024 Oct;191(10):1-10 ;. 39251503
- **[IF=3.905]** Weifeng Hu. et al. Bone marrow-derived mesenchymal stem cells transplantation attenuates renal fibrosis following acute kidney injury by repairing the peritubular capillaries. Exp Cell Res. 2022 Feb;411:112983 IHC ;Rat. 34921827
- **[IF=3.508]** Juin-Hong Cherng. et al. Hemostasis and Anti-Inflammatory Abilities of AuNPs-Coated Chitosan Dressing for Burn Wounds. J PERS MED. 2022 Jul;12(7):1089 IHC ;Rat. 10.3390/jpm12071089