

Anti-Thrombomodulin Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat (predicted:Dog,Cow)
Molecular Weight:	Theoretical: 61 kDa. Actual: 120 kDa.
Purification:	Protein A purified

Applications

1. Tissue/cell: human kidney tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01 M, pH 6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Incubation: Anti-Thrombomodulin Polyclonal Antibody, Unconjugated (TMAB-13521) 1:300, overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining

2. Sample:

Verified Activity:	Lane 1: Testis (Mouse) Tissue Lysate at 40 µg
	Lane 2: NIH/3T3 (Mouse) Cell Lysate at 30 µg
	Lane 3: Testis (Rat) Tissue Lysate at 40 µg
	Lane 4: A431 (Human) Cell Lysate at 30 µg
	Lane 5: Huvec (Human) Cell Lysate at 30 µg
	Lane 6: A549 (Human) Cell Lysate at 30 µg
	Primary: Anti-Thrombomodulin (TMAB-13521) at 1/1000 dilution
	Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
	Predicted band size: 61 kD
	Observed band size: 120 kD

Application: WB,IHC-P,IHC-Fr,IF

Recommended WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

Properties

Stability & Storage: Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: mouse Thrombomodulin
Antigen Species:	Mouse
Gene ID:	21824
Uniprot ID:	P15306

Research 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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