

Monoclonal Antibody to CD141 / THBD - Purified

Alternate names:	Thrombomodulin, THRM, Fetomodulin
Catalog No.:	AF6510
Quantity:	0.1 mg
Concentration:	0.5 mg/ml
Background:	D141/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.
Uniprot ID:	P07204
Host / Isotype:	Mouse / IgG1
Clone:	21-5D2
Format:	State: Liquid Buffer System: 0.1 M Na-Phosphate buffer, pH 7.0 containing 0.5% protease-free bovine serum albumin and 0.09% sodium azide as preservative
Applications:	ELISA, Western blot. Immunohistochemistry on frozen sections. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	The antibody specifically reacts with human placental Thrombomodulin (hTM). Species: Human. Others not tested.
Storage:	Store at 2-8°C up to one month, aliquot and store at -20°C for longer. Avoid repeated freeze/thaw cycles. Shelf life: One year from despatch.
Product Citation:	Christoph Renne, Klaus Willenbrock, Ralf Küppers, Martin-Leo Hansmann, and Andreas Bräuninger Autocrine- and paracrine-activated receptor tyrosine kinases in classic Hodgkin lymphoma Blood, May 2005; 105: 4051 - 4059.
General References:	Kodama S. et al. One-step sandwich enzyme immunoassay for soluble human thrombomodulin using monoclonal antibodies. Clin. Chim. Acta. 192, 191-200, 1990. Hayashi, T. and Suzuki, K. Monoclonal antibodies for human thrombomodulin which recognize binding sites for thrombin and protein C.J. Biochem., 108, 874-878, 1990.

For research and in vitro use only. Not for diagnostic or therapeutic work.

Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Antibody Hotline - Technical Questions - Antibody Location Service
Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com

**Recommended
Isotype Controls:**

SM10P (for use in human samples), AM03095PU-N

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