

Technical Data Sheet

Purified Mouse Anti-Human CD141

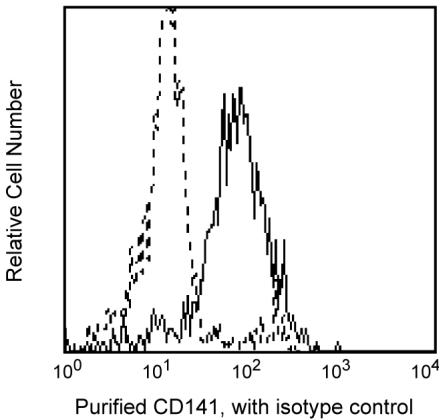
Product Information

Material Number:	559780
Alternate Name:	Thrombomodulin
Size:	0.1 mg
Concentration:	0.5 mg/ml
Clone:	1A4
Isotype:	Mouse IgG1 κ
Reactivity:	QC Testing: Human
Workshop:	VI E013
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

Reacts with a 75 kDa, a single chain, type I membrane glycoprotein referred to as thrombomodulin and fetomodulin. CD141 is expressed on endothelial cells, smooth muscle cells, epithelial cells, synovial lining cells, and keratinocytes. It is also found on megakaryocytes, peripheral blood monocytes, and neutrophils, but not on lymphocytes. Reports indicate that CD 141 plays an important role in Protein C activation and the initiation of the Protein C anticoagulant pathway. Thrombin loses its procogulant function when it binds to CD141, and the CD141/thrombin complex is able to activate Protein C.

This product is routinely tested by flow cytometric analysis. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.



Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. Store undiluted at 4° C.

Application Notes

Application

Flow cytometry	Routinely Tested
Immunohistochemistry-frozen	Tested During Development
Fluorescence microscopy	Tested During Development

BD Biosciences

bdbiosciences.com

United States	Canada	Europe	Japan	Asia Pacific	Latin America/Caribbean
877.232.8995	888.259.0187	32.53.720.550	0120.8555.90	65.6861.0633	55.11.5185.9995

For country-specific contact information, visit bdbiosciences.com/how_to_order/

Conditions: The information disclosed herein is not to be construed as a recommendation to use the above product in violation of any patents. BD Biosciences will not be held responsible for patent infringement or other violations that may occur with the use of our products. Purchase does not include or carry any right to resell or transfer this product either as a stand-alone product or as a component of another product. Any use of this product other than the permitted use without the express written authorization of Becton Dickinson and Company is strictly prohibited.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Not for resale.

BD, BD Logo and all other trademarks are the property of Becton, Dickinson and Company. ©2006 BD



Suggested Companion Products

Catalog Number	Name	Size	Clone
555746	Purified Mouse IgG1 Kappa Isotype Control	0.1 mg	MOPC-21
555988	FITC Goat Anti-Mouse IgG/IgM	0.5 mg	Gt/Ms

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmlngen/protocols for technical protocols.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

References

Kishimoto T, von dem Borne AEG, Goyert SM, et al., ed. *Leucocyte Typing VI: White Cell Differentiation Antigens*. London: Garland Publishing; 1997.
(Clone-specific)
Teasdale MS, Bird CH, Bird P. Internalization of the anticoagulant thrombomodulin is constitutive and does not require a signal in the cytoplasmic domain. *Immunol Cell Biol*. 1994; 72(6):480-488.(Biology)