



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Mouse Anti-Human CD142

With HRP-conjugated Secondary Antibody

Catalog No.

DS-MB-02415

Target Species

Human

Isotype

IgG1

Preparation

Immunogen: Denatured Tissue factor isolated from human brain by the Factor VII affinity method

Fusion Partners: Spleen cells from immunized Balb/c mice were fused with cells of the P3Ag8.653.1 myeloma cell line.

Formulation

Product Type: Monoclonal Antibody

Product Form: Purified IgG - liquid

Approx. Protein Concentrations: IgG concentration 1.0 mg/ml

Preservative Stabilizers: 0.09% Sodium Azide (NaN₃) 200 mM Mannitol

Specificity

CD142, also known as Tissue Factor, is the membrane receptor for coagulation factors VII and VIIa and is the cell surface initiator of coagulation. It is the major molecule of this type and is critical for controlling hemostasis, thrombosis and inflammation.

This product is specific for an epitope within the extracellular domain, epitope locus I. It recognizes both the reduced and native nonreduced human and primate tissue factors. It does not inhibit coagulation or neutralize factor VII binding to CD142.

Storage

Store at +4°C for one month or at -20°C for longer.

This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life: 18 months from date of shipment

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**



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Applications

Table Summary of antibody applications and working conditions

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
Flow Cytometry	•			
Immunohistology - Frozen	•			
Immunohistology - Paraffin			•	
ELISA	•			
Western Blotting	•			

Note: Other applications are not tested yet. Optimal dilutions should be determined by the user.

Secondary Antibody Applications

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
Immunoassay (ELISA, Western Blotting)	•			1:5000-1:10000

References

1. Morrissey, J. H. et al. (1988) Monoclonal antibody analysis of purified and cell-associated tissue factor. *Thromb. Res.* 52: 247-261.
2. Contrino, J. et al. (1994) In situ characterization of antigenic and functional tissue factor expression in human tumors utilizing monoclonal antibodies and recombinant factor VIIa as probes. *Am. J. Path.* 145: 1315-1322.
3. Drake, T. A. et al. (1989) Selective cellular expression of tissue factor in human tissues. Implications for disorders of hemostasis and thrombosis. *Am. J. Pathol.* 134: 1087-1097.
4. Stearns-Kurosawa, D. J. et al. (2006) Sepsis and pathophysiology of anthrax in a nonhuman primate model. *Am. J. Pathol.* 169: 433-444.
5. Mueller, B. M. et al. (1992) Expression of tissue factor by melanoma cells promotes efficient hematogenous metastasis. *Proc. Natl. Acad. Sci. U. S. A.* 89: 11832-11836.
6. Agmon-Levin, N. et al. (2011) Vitamin D: an instrumental factor in the anti-phospholipid syndrome by inhibition of tissue factor expression. *Ann Rheum Dis.* 70: 145-50.

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