



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Mouse Anti-Human CD142, FITC-labeled

Catalog No.
DS-MB-00338

Target Species
Human

Isotype
IgG1

Preparation

Purification: Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant.

Specificity

DS-MB-00338 recognizes human CD142, a 45kD cell surface glycoprotein which is otherwise known as Tissue Factor (TF). CD142 expression can be induced on monocytes, macrophages and endothelial cells by various stimuli including interleukin 1, tumor necrosis factor and endotoxin. CD142 initiates the blood clotting cascade by binding coagulation factor VIIa, which activates factor IX or factor X by specific limited proteolysis. CD142 also plays an important role in inflammation, angiogenesis, and the pathophysiology of atherosclerosis and cancer.

Formulation

Product Type: Monoclonal Antibody

Product Form: Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid

Buffer Solution: TRIS buffered saline

Preservative Stabilizers: 0.09% Sodium Azide (NaN₃) 1% Bovine Serum Albumin

Approx. Protein Concentrations: IgG concentration 0.1 mg/ml

Applications

Options	YES	NO	Not determined	Recommended Work dilution or concentration
Functions				
Flow Cytometry	•			1/10 - 1/50

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

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



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Storage

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost-free freezers is not recommended. 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 dispatch.

References

1. van der Putten, R.F. et al. (2005) High-affinity antibodies in a new immunoassay for plasma tissue factor: reduction in apparent intra-individual variation. *Clin. Chem. Lab. Med.* 43:1386 – 1391.
2. Mobarrez, F. et al. (2010) A multicolor flow cytometric assay for measurement of platelet-derived microparticles. *Thromb Res.* 125: e110-6.
3. Tehrani, S. et al. (2010) Atorvastatin has antithrombotic effects in patients with type 1 diabetes and dyslipidemia. *Thromb Res.* 126: e225-31.
4. Aass, H.C. et al. (2011) Fluorescent particles in the antibody solution result in false TF- and CD14-positive microparticles in flow cytometric analysis. *Cytometry A.* 79: 990-9.
5. Trummer, A. et al. (2008) Isotype controls in phenotyping and quantification of microparticles: a major source of error and how to evade it. *Thromb Res.* 122: 691-700.

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