

Technical Data Sheet

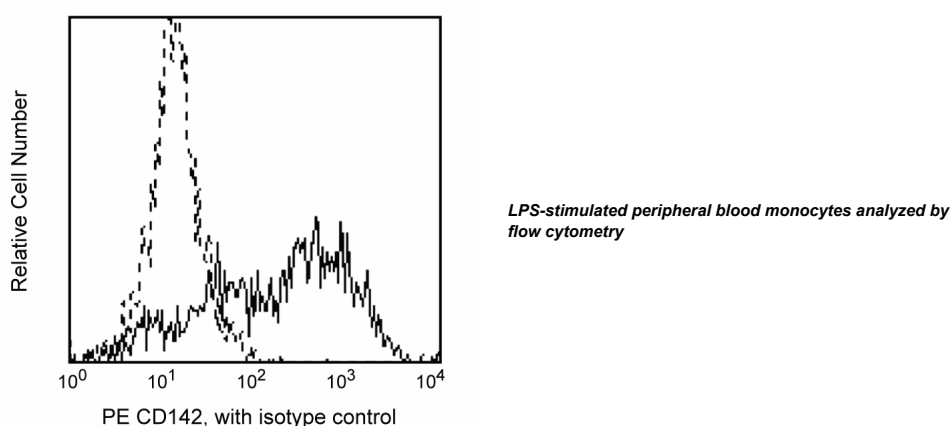
PE Mouse Anti-Human CD142

Product Information

Material Number:	561713
Size:	25 tests
Vol. per Test:	20 µl
Clone:	HTF-1
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Human
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

Reacts with a 45-47 kDa, single chain, type I transmembrane protein also known as Tissue Factor (TF). CD142 has been referred in the literature as coagulation Factor III or thromboplastin and it is expressed on activated endothelial cells and lipopolysaccharide (LPS)-stimulated monocytes/macrophages. TF associates with factor VIIa to form a complex and acts as an enzyme that initiates the blood coagulation cascade. It is known as the major initiator of clotting in normal hemostasis. CD142 can be induced by various inflammatory mediators in monocytes and vascular endothelial cells. This antibody is useful in inflammation, thrombosis and hemostasis research.



Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed.

Application Notes

Application

Flow cytometry	Routinely Tested
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Suggested Companion Products

Catalog Number	Name	Size	Clone
555749	PE Mouse IgG1, κ Isotype Control	100 tests	MOPC-21
554656	Stain Buffer (FBS)	500 ml	(none)

Product Notices

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use 1×10^6 cells in a 100-µl experimental sample (a test).
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
3. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
4. 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.
5. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/colors.

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6. An isotype control should be used at the same concentration as the antibody of interest.

References

Carson SD, Perry GA, Pirruccello SJ. Fibroblast tissue factor: calcium and ionophore induce shape changes, release of membrane vesicles, and redistribution of tissue factor antigen in addition to increased procoagulant activity. *Blood*. 1994; 84(2):526-534. (Biology)

McComb RD, Miller KA, Carson SD. Tissue factor antigen in senile plaques of Alzheimer's disease. *Am J Pathol*. 1991; 139(3):491-494. (Biology)

Whittle SM, Yoder SC, Carson SD. Human placental tissue factor: protease susceptibility of extracellular and cytoplasmic domains. *Thromb Res*. 1995; 79(5-6):451-459. (Biology)