

CD142 Monoclonal Antibody (HTF-1), Functional Grade, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Functional Grade, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	HTF-1
Conjugate	Functional Grade
Form	Liquid
Concentration	1 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	no preservative
Storage Conditions	4° C
RRID	AB_2573080

Applications	Tested Dilution	Publications
Western Blot (WB)	Assay-Dependent	1 Publication
Immunocytochemistry (ICC)	Assay-Dependent	-
Immunofluorescence (IF)	Assay-Dependent	-
Flow Cytometry (Flow)	0.25 µg/test	-
Functional Assay (FN)	Assay-Dependent	-

Product Specific Information

Description: This HTF-1 monoclonal antibody reacts with human CD142, which is also known as Tissue Factor. Expression of this type I transmembrane glycoprotein on endothelial cells, monocytes, macrophages, and platelets can be induced by inflammatory mediators (e.g., LPS, IL-1b, TNFa, PMA, or endotoxin). On the other hand, CD142 is expressed constitutively by some tumor cells (e.g., lung, pancreatic, breast, and colon) and non-immune tissues such as the vasculature, central nervous system, kidney, epithelia, and placenta. Studies have also suggested that CD142 exists as a soluble form that circulates in blood. CD142 initiates blood coagulation by associating with and activating the circulating factors VII and VIIa.

The HTF-1 antibody has been reported to exhibit blocking activity.

Applications Reported: This HTF-1 antibody has been reported for use in functional assays, flow cytometric analysis, western blotting, and immunocytochemistry.

Applications Tested: This HTF-1 antibody has been tested by flow cytometric analysis of stimulated normal human peripheral blood cells. This can be used at less than or equal to 0.25 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells /test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Filtration: 0.2 µm post-manufacturing filtered.

Purity: Greater than 90%, as determined by SDS-PAGE.

Endotoxin Level: Less than 0.001 ng/µg antibody, as determined by LAL assay.

Aggregation: Less than 10%, as determined by HPLC.

1 Reference

Western Blot (1)

Scientific reports

Different Potential of Extracellular Vesicles to Support Thrombin Generation: Contributions of Phosphatidylserine, Tissue Factor, and Cellular Origin.

"16-1429 was used in Western Blotting to provide evidence that irrespective of their cellular origin, EVs support the propagation of coagulation via the exposure of phosphatidylserine.."

Authors: Tripisciano C, Weiss R, Eichhorn T, Spittler A, Heuser T, Fischer MB, Weber V

Species
Human

Dilution
Not Cited

Year
2017

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