



11-130-C025

Monoclonal Antibody to CD142 Purified Antibody (0.025 mg)

Clone:	HTF-1
Isotype:	Mouse IgG1
Specificity:	The mouse monoclonal antibody HTF-1, also known as HTF1-7B8, recognizes CD142 (tissue factor, coagulation factor III), a type I glycoprotein expressed on endothelial cells, monocytes, macrophages, and platelets upon induction by inflammatory mediators, and expressed constitutively by some tumors, the vasculature, placenta, kidney, and central nervous system. HLDA VI; WS Code E016
Regulatory Status:	RUO
Immunogen:	Human brain tissue factor (CD142)
Species Reactivity:	Human
Application:	Flow Cytometry Western Blotting Immunocytochemistry Functional Application blocking
Purity:	> 95% (by SDS-PAGE)
Purification:	Purified by protein-A affinity chromatography
Concentration:	1 mg/ml
Storage Buffer:	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
Storage / Stability:	Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.
Expiration:	See vial label
Lot Number:	See vial label
Background:	CD142, also known as coagulation factor III, tissue thromboplastin, and tissue factor. It is a transmembrane glycoprotein, which enables cells to initiate the blood coagulation cascades, and functions as the high-affinity receptor for the coagulation factor VII. The resulting complex provides a catalytic event that is responsible for initiation of the coagulation protease cascades by specific limited proteolysis. Unlike the other cofactors of these protease cascades, which circulate as nonfunctional precursors, this factor is a potent initiator that is fully functional when expressed on cell surfaces. It is the only one factor in the coagulation pathway for which a congenital deficiency has not been described.

For laboratory research only, not for drug, diagnostic or other use.



Antibodies

- References:**
- *Carson SD, Ross SE, Bach R, Guha A: An inhibitory monoclonal antibody against human tissue factor. *Blood*. 1987 Aug;70(2):490-3.
 - Bucciarelli P, Martinelli I, Artoni A, Passamonti SM, Previtali E, Merati G, Tripodi A, Mannucci PM: Circulating microparticles and risk of venous thromboembolism. *Thromb Res*. 2012 May;129(5):591-7
 - *Aass HC1, Øvstebø R, Trøseid AM, Kierulf P, Berg JP, Henriksson CE: Fluorescent particles in the antibody solution result in false TF- and CD14-positive microparticles in flow cytometric analysis. *Cytometry A*. 2011 Dec;79(12):990-9. doi: 10.1002/cyto.a.21147.
 - *Patil R, Ghosh K, Satoskar P, Shetty S: Elevated procoagulant endothelial and tissue factor expressing microparticles in women with recurrent pregnancy loss. *PLoS One*. 2013 Nov 20;8(11):e81407.

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