

CD142 Rabbit monoclonal antibody

Catalog: MB66409

Host: Rabbit

Reactivity: Human, Mouse, Rat

BackGround:

Tissue Factor (TF)/CD142 (Coagulation factor III/Thromboplastin) is a type-I transmembrane glycoprotein that serves as the cell surface receptor and cofactor for blood coagulation factors VII and VIIa, and thus plays a central role in hemostasis and thrombosis. The TF:VIIa receptor-ligand complex is widely recognized as the initiator of the extrinsic blood coagulation protease cascade, which ultimately leads to the generation of fibrin and thrombin. A member of the type-II cytokine receptor superfamily, TF has also been shown to engage the PI3K and MAPK signaling cascades upon binding to factor VIIa in order to drive cellular responses such as cell migration, growth, and proliferation. Although the function of TF under physiologic conditions is to coordinate blood clotting in response to tissue damage, TF is implicated in pathologic conditions such as tumorigenesis. Indeed, TF is aberrantly expressed in colorectal cancer, breast cancer, pancreatic cancer, and glioblastoma multiforme. It has been shown to promote tumor angiogenesis, tumor growth, metastasis, and venous thrombosis. Given that TF overexpression is associated with numerous types of solid tumors, it has garnered much attention as a potential therapeutic target.

Product:

Liquid in 50mM Tris-Glycine (pH 7.4), 0.15M NaCl, 50% Glycerol, 0.01% Sodium azide and 0.05% BSA.

Molecular Weight:

~ 45 kDa

Swiss-Prot:

P13726

Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

Applications:

WB (1/500 - 1/1000), IHC (1/50 - 1/100)

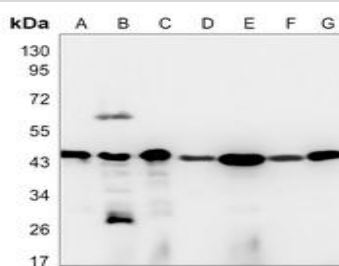
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

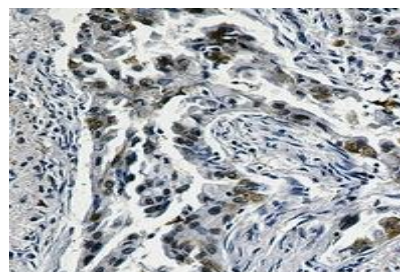
Specificity:

Recognizes endogenous levels of CD142 protein.

DATA:



Western blot analysis of CD142 expression in Hela (A), A549 (B), MCF7 (C), U251 (D), HL60 (E), mouse brain (F), rat brain (G) whole cell lysates.



Immunohistochemical analysis of CD142 staining in human lung cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.88). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

Note:

For research use only, not for use in diagnostic procedure.

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PRODUCT DATA SHEET

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