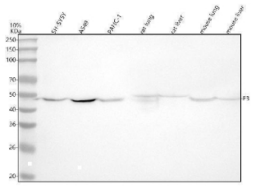
# Tissue Factor Antibody / CD142 [clone GGE-6] (RQ5414)

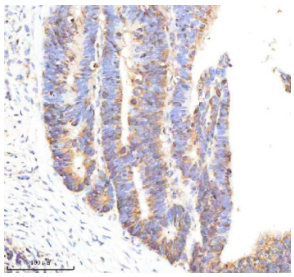
| Catalog No. | Formulation | Size |
|---|---|---|
| RQ5414 | Antibody in PBS with 0.02% sodium azide, 50% glycerol and 0.4-0.5mg/ml BSA | 100 ul |

**Bulk quote request**

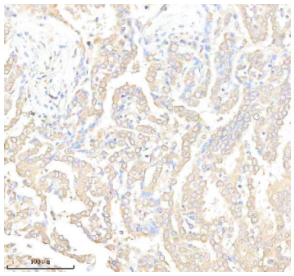
| | |
|---|---|
| **Availability** | 1-2 weeks |
| **Species Reactivity** | Human, Mouse, Rat |
| **Format** | Purified |
| **Host** | Rabbit |
| **Clonality** | Rabbit Monoclonal |
| **Isotype** | Rabbit IgG |
| **Clone Name** | GGE-6 |
| **Purity** | Affinity purified |
| **UniProt** | P13726 |
| **Applications** | Western Blot : 1:1000-1:2000<br>Immunohistochemistry (FFPE) : 1:50-1:200 |
| **Limitations** | This Tissue Factor antibody is available for research use only. |



Tissue Factor Antibody Multi-Species WB. Western blot analysis of human, rat, and mouse lysates using Tissue Factor antibody. Lane 1: human SH-SY5Y lysate, Lane 2: human A549 lysate, Lane 3: human PANC-1 lysate, Lane 4: rat lung lysate, Lane 5: rat liver lysate, Lane 6: mouse lung lysate, Lane 7: mouse liver lysate. A predominant band is detected near 45-50 kDa, compared to the predicted molecular weight of Tissue Factor / F3 / CD142 at approximately 35 kDa. The higher apparent molecular weight is consistent with known glycosylation of this membrane-associated coagulation receptor, which can alter electrophoretic mobility during SDS-PAGE analysis. The observed expression pattern supports the role of Tissue Factor in coagulation pathway activation, inflammatory signaling, vascular injury response, and tumor-associated procoagulant activity across multiple mammalian tissues and cell types.



Tissue Factor Antibody Colon Cancer IHC. Immunohistochemistry analysis of FFPE human colon cancer tissue using Tissue Factor antibody. Tumor epithelial cells demonstrate membranous and cytoplasmic HRP-DAB brown staining consistent with the surface-associated localization of Tissue Factor / CD142 in coagulation signaling, inflammatory pathway activation, and tumor-associated procoagulant activity within colorectal carcinoma tissue. Nuclei are counterstained blue. Heat-induced epitope retrieval was performed using EDTA buffer, pH8.0, prior to staining.



Tissue Factor Antibody Lung Cancer IHC. Immunohistochemistry analysis of FFPE human lung cancer tissue using Tissue Factor antibody. Tumor epithelial cells demonstrate membranous and cytoplasmic HRP-DAB brown staining consistent with the surface-associated localization of Tissue Factor / F3 / CD142 in coagulation pathway activation, inflammatory signaling, and tumor-associated prothrombotic activity within pulmonary carcinoma tissue. Nuclei are counterstained blue. Heat-induced epitope retrieval was performed using EDTA buffer, pH8.0, prior to staining.

## Description

Tissue Factor Antibody specifically detects Tissue Factor protein, also called CD142 F3 and coagulation factor III, is a cell surface glycoprotein. This factor enables cells to initiate the blood coagulation cascades, and it 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. There are 3 distinct domains of this factor: extracellular, transmembrane, and cytoplasmic. This protein is the only one in the coagulation pathway for which a congenital deficiency has not been described.

Additional studies involving coagulation signaling, inflammatory tumor microenvironments, and procoagulant pathway activation may benefit from our Tissue Factor antibody page featuring clone CD142/9195 for cancer and vascular biology research.

## Application Notes

Optimal dilution of the Tissue Factor antibody should be determined by the researcher.

## Immunogen

A synthetic peptide specific to human Tissue Factor / F3 was used as the immunogen for the Tissue Factor antibody.

## Storage

Store the Tissue Factor antibody at -20oC.

## Alternate Names

TF antibody, F3 antibody, CD142 antibody, Thromboplastin antibody