Anti-Human Tissue Factor
Monoclonal 0.50 mg

Ref#: MAB-TFE
Lot#: xxxxxx
Exp. Date: 2030-07

Store at -20°C

For Research Use Only
Not for Use in Diagnostic Procedures
For *in vitro* use only

Immunogen:	Human Tissue Factor
Antibody Source:	Mouse monoclonal IgG_{2a}
Format:	Monoclonal antibody purified by protein G affinity chromatography from cell supernatant. Lyophilized in 20 mM Sodium Phosphate, 150 mM NaCl, 1% Manntiol, pH 7.4
Clone ID#:	490
Storage:	Store unopened vial at -20°C until its expiration date Reconstitute with aqua dest to the original volume and freeze aliquots at -20°C or below, expires 2 years after reconstitution. Avoid freeze/thaw cycles. Alternatively, add 0.02% (w/v) sodium azide to reconstituted solution and store at 2-8°C for up to 8 weeks.
Total Protein:	0.50 mg
Applications:	For Research Use Only. Not for Use in Diagnostic Procedures. For *in vitro* use only
Volume:	1 vial containing 0.500 mL monoclonal anti-human Tissue Factor
Concentration:	1 mg/mL before lyophilisation by Absorbance; Extinction Coefficient $E^{0.1\%}_{280}$ = 1.4
Specificity:	Extracellular domain of Tissue Factor Working conditions 1-5 µg/mL Binds human Tissue Factor in solid phase ELISA. Binds human Tissue Factor in Immunoblotting under reduced and non-reduced conditions

Tissue Factor (TF) is a single chain molecule of 44 kDa consisting of an extra-cellular domain, a trans-membrane and the C-terminal intracellular domain. As an integral membrane glycoprotein it is expressed in the plasma membranes of many cell types. TF becomes exposed to blood at the site of vascular injury, it initiates coagulation by acting as a receptor for both the zymogen and protease forms of Factor VII(a). The binding of FVII to TF in the presence of a negatively charged surface such as a phospholipid promotes the auto activation of FVII by FVIIa. The TF-FVIIa complex in the presence of calcium ions activates Factor IX and X.

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