

Anti-Tissue factor [5G9] Bulk Size Ab00516-10.7-BT

This antibody is in our proprietary AbFab2™ recombinant F(ab2) format - based on Human IgG1 sequence with a short dimerization domain to improve stability and a his tag.

This chimeric human antibody was made using the variable domain sequences of the original Mouse IgG1 format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Human F(ab)2, AbFab2™ His-Tagged, Kappa

Clone Number: 5G9

Alternative Name(s) of Target: TF; platelet tissue factor; factor III; thromboplastin; CD142

UniProt Accession Number of Target Protein: P13726

Published Application(s): WB, Block, ELISA

Published Species Reactivity: Human

Immunogen: Human TF.

Specificity:

Application Notes: The antibody binds specifically to TF, a hemostatic protein which is involved in the extrinsic pathway of coagulation. TF is receptor for circulating serine protease factor VIIa, activating the catalytic VIIa protease domain. The complex formed functions to activate the zymogen factor X into activated factor Xa, which then catalyses the formation of Prothrombin to Thrombin. The pathways results in a fibrin clot which acts to stop bleeding. The monoclonal antibody 5G9 acts as a competitive inhibitor of factor X, thereby inhibiting its activation by the TF.VIIa complex and the formation of a clot.

Antibody First Published in: Ruf W, Edgington TS. An anti-tissue factor monoclonal antibody which inhibits TF.VIIa complex is a potent anticoagulant in plasma. Thromb Haemost. 1991 Nov 1;66(5):529-33.

[PMID:1803616](#)

Note on publication: Describes the production of a murine monoclonal antibody directed against TF, and inhibits the complex of TF which Factor VIIa, thereby acting as an anticoagulant in plasma.

Product Form

Size: 1 mg Purified antibody in bulk size.

Purification: Purified by Immobilized Metal Affinity Chromatography

Supplied In: PBS only.

Storage Recommendation: Store at 4°C for up to 3 months. Note, this antibody is provided without

added preservatives, it is therefore recommended this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.