Product Data Sheet

Product number **A079**
Revision number RN2.0

Product Name	Biotin-DD-XLink-mab (product derived from A076)
Background info	After proteolytic activation by thrombin, FXIIIa modifies the soft fibrin clot and thereby introducing covalent bonds. First, cross-linking between abutting γ-chains of fibrin is catalyzed and subsequently α_2-antiplasmin is incorporated to further increase the resistance against fibrinolysis. Plasmin catalyses the retarded clot dissolution and the release of crosslinked fibrin degradation products (xFDPs / D-dimer). Monoclonal "D-dimer" antibodies (e.g. DD-3B6/22) are commercially available and are used in In Vitro Diagnostics (IVD) to exclude thromboembolic events. However, these monoclonals do not detect the crosslink itself but address a portion of polypeptides within the D-domain after plasmin degradation that are conformationally reactive. Zedira scientists developed a monoclonal antibody which directly recognizes the crosslinked fibrin neoepitope (DD-XLink-mab).

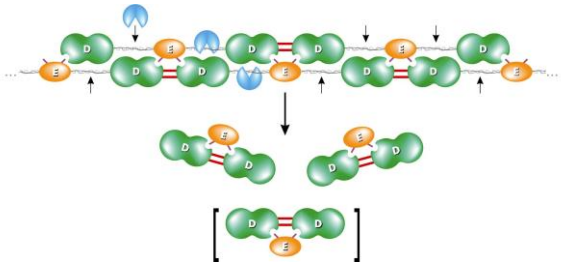

Figure 1: Schematic view of a FXIII-cross-linked fibrin-clot and release of D-Dimers.
E (orange): E-domain
D (green): D-domain
red: FXIII-cross-links
blue: plasmin
in [ ]: D-Dimer/xFDPs

Host	Mouse
Subclass	IgG2b κ
Immunogen	Human fibrin peptides cross-linked with plasma factor XIIIa.
Specificity	Specific for clot derived xFDPs (crosslinked Fibrin Degradation Products) Minor reactivity with fibrinogen degradation products (FDPs) cannot be excluded.
Amount	50 µg purified IgG-Biotin conjugate.
Appearance	liquid
Formulation	The antibody is stored in 10 mM sodium phosphate, 15 mM NaCl (pH 8.0), 50% glycerol
Working dilutions	Optimal dilutions should be determined by the end user. E. g. for Western-Blotting: 1 / 3,000 to 1 / 10,000 should be suitable
Storage	Store frozen at < -20°C
Related products	A046 Monoclonal antibody to D-Dimer, clone 3B6 A047 Monoclonal antibody to D-Dimer, clone 1D2 A076 Monoclonal antibody to DD-XLink
Release date	25 November 2021
NOTE	INTENDED FOR RESEARCH USE ONLY, NOT FOR USE IN HUMAN, THERAPEUTIC OR DIAGNOSTIC APPLICATIONS.