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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-Fibrin beta-chain [59D8] Bulk Size Ab02828-23.0-BT

This chimeric rabbit 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: Rabbit IgG, Kappa

Clone Number: 59D8

Alternative Name(s) of Target: FGB; factor Ia; factor-1a; fibrin; fibrin β chain; fibrin beta chain; Fibrinogen beta chain; Fibrinopeptide B; Fibrinogen beta chain

UniProt Accession Number of Target Protein: P02675

Published Application(s): ELISA

Published Species Reactivity: Human

Immunogen: The original antibody was generated by using a synthetic heptapeptide from the amino terminus of the beta chain in human fibrin as an immunogen.

Specificity: This antibody selectively binds to the amino-terminus of the fibrin β -chain that becomes exposed after cleavage of fibrinopeptide B by thrombin.

Application Notes: The original mouse antibody was able to bind fibrin even in the presence of human fibrinogen at the concentration found in plasma. This antibody when intravenously administered in a chicken ex vivo circulatory model bound human fibrin-coated disks placed in an extracorporeal chamber (PMID: 6648524). An immunoconjugate (tPA-59D8) generated from tissue plasminogen activator (tPA) and anti-fibrin antibody 59D8 degraded less fibrinogen and consumed less alpha 2-antiplasmin than did tPA alone, suggesting that more potent and more selective thrombolysis can be achieved by efficiently directing tPA to the site of a thrombus (PMID: 3118374). This antibody was used in the generation of a single-chain urokinase plasminogen activator (scu-PA) and -59D8 Fab' conjugate which had a fibrinolytic potency 33-fold more than that of tissue plasminogen activator (PMID: 2111744). A recombinant r-scuPA(32kDa)-59D8 was 6 times more potent than high molecular mass scuPA in lysing a human plasma clot in vitro and was 20 times more potent than high molecular mass scuPA in the rabbit jugular vein model of thrombolysis. The binding affinity of the antibody towards fibrin was determined using ELISA (PMID: 1946453). This antibody was also used in the generation of a fusion protein comprising hirudin that genetically fused to the C-terminus of the variable region of the light chain of scFv59D8. This fusion protein was found to inhibit thrombin after its activation by factor Xa and also inhibits appositional clot growth in vitro (PMID: 10715263).

Antibody First Published in: Hui et al. Monoclonal antibodies to a synthetic fibrin-like peptide bind to

human fibrin but not fibrinogen. Science. 1983 Dec 9;222(4628):1129-32. [PMID:6648524](#)

Note on publication: Describes the generation of this antibody.

Product Form

Size: 1 mg Purified antibody in bulk size.

Purification: Protein A affinity purified

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.