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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-Fibrin beta-chain [8E5] Bulk Size Ab00799-10.0-BT

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 IgG1, Kappa

Clone Number: 8E5

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

UniProt Accession Number of Target Protein: P02675

Published Application(s): ex vivo, in vivo, ELISA, Imaging

Published Species Reactivity: Human

Immunogen: 8E5 was prepared fusing Sp2/o myeloma cells with spleen cells derived from female BALB/c mice immunized with a synthetic β -fibrin peptide sequence GHRPLDKC conjugated to MB-KLH (maleimidobenzoylated keyhole limpet hemocyanin).

Specificity: 8E5 binds to the amino-terminal region of the β -chain of human fibrin at an epitope consisting of GHRPLDKC. Binding is possible in both the monomeric form and the polymeric form of the protein. The epitope recognised by this clone is only accessible upon conversion of fibrinogen to fibrin, which entails the proteolytic removal of fibrinopeptides A & B from fibrinogen by thrombin. The antibody is therefore fibrin specific. Fibrin is a non-globular protein which plays a role in the clotting of blood and circulates as the precursor fibrinogen. Polymerization occurs through the action of the protease thrombin, which results in the active fibrin. Fibrin polymerizes as an insoluble matrix and forms a clot along with platelets over a wound site.

Application Notes: The recombinant scFv version of 8E5 retains the same antigen-binding activity of the parent antibody. 8E5 can bind to fibrin in the monomeric and polymeric form, both in vivo and ex vivo. This antibody can also be used for the immunodetection of fibrin in vivo. Standard ELISA and competitive ELISA using the epitope peptide has been conducted with both the parental antibody and the scFv.

Antibody First Published in: Song et al. Primary structure and functional expression of heavy- and light-chain variable region genes of a monoclonal antibody specific for human fibrin. *Hybridoma*. 1997 Jun;16(3):235-41. [PMID:9219033](#)

Note on publication: Describes the derivation of the scFv of 8E5 and the determination of the protein sequence of the variable regions.

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.