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Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-Collagen I [AFA] Bulk Size Ab04239-19.0-BT

This antibody does not have a J-chain and is monomeric, i.e. it presents with two Fab arms and one Fc domain.

Isotype and Format: Mouse IgA, Kappa

Clone Number: AFA

Alternative Name(s) of Target: CTTR1; $\alpha 2\text{Ct}$; $\alpha 2(\text{I})\text{C}$ -telopeptide; C-terminal telopeptide of the $\alpha 2$ chain; Procollagen I

UniProt Accession Number of Target Protein:

Published Application(s): in vivo, therapeutic, Block

Published Species Reactivity: Human

Immunogen: The original antibody was produced by immunizing mice with a synthetic peptide (GGGYDFGYDGDFYRA) whose sequence corresponds to that of the C-terminal telopeptide of the $\alpha 2$ chain ($\alpha 2\text{Ct}$).

Specificity: This antibody is specific for human collagen I, showing high affinity to the GDF sequence (in A2_DGDFY, part of the $\alpha 2(\text{I})\text{C}$ -telopeptide), suggesting it is a critical epitope.

Application Notes: This antibody binds human collagen I and blocks the binding activity of its C-terminal telopeptide region (denoted as CTTR1) consisting of two $\alpha 1(\text{I})\text{C}$ -telopeptides (denoted as $\alpha 1\text{Ct}$) and one $\alpha 2(\text{I})\text{C}$ -telopeptide (denoted as $\alpha 2\text{Ct}$). The K_D of this antibody and its Fab and scFv with native $\alpha 2\text{Ct}$ present in procollagen I and with synthetic $\alpha 2\text{Ct}$ were 663 pM, 268 nM, 21 pM, 57 nM, and 75nM for full-length AFA/procollagen I, Fab AFA antibody/procollagen I, full-length AFA antibody/synthetic $\alpha 2\text{Ct}$, Fab AFA antibody/synthetic $\alpha 2\text{Ct}$, and scFv/procollagen I, respectively (US20200048333A1). A chimeric IgG version of the original IgA version of this antibody was engineered (Fertala et al., 2013; PMID: 23586407). This antibody has been shown to be an effective therapeutic tool for blocking collagen fibril formation in various models (Fertala et al., 2017; PMID: 28972447) (Fertala et al., 2017; PMID: 23586407).

Antibody First Published in: Chung et al. Collagen fibril formation. A new target to limit fibrosis J Biol Chem. 2008 Sep 19;283(38):25879-86. doi: 10.1074/jbc.M804272200 [PMID:18650436](#)

Note on publication: The original publication introduces a novel concept for reducing fibrotic deposits by inhibiting the self-assembly of collagen molecules into fibrils, utilizing monoclonal antibodies targeting the telopeptide region to block collagen interactions and demonstrating efficacy in reducing collagen fibrils in vitro and in organotypic constructs.

Product Form

Size: 500 µg Purified antibody in bulk size.

Purification: Affinity Purified using a recombinant lectin column

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.