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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-Collagenase type IV [3G11] Bulk Size Ab04210-30.11-BT

This is an scFv fragment with a His tag.

This reformatted scFv antibody, based on the original IgG1 format, created for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: scFv fragment (His), ScFv

Clone Number: 3G11

Alternative Name(s) of Target: MMP2; MMP-2; MMP 2; Matrix metalloproteinase 2; 72 kDa type IV collagenase; 72 kDa gelatinase; Gelatinase A

UniProt Accession Number of Target Protein: P33434

Published Application(s): Immunoscintigraphy, in vivo, MTT assay, ELISA, IF, IHC

Published Species Reactivity: Mouse

Immunogen: The original antibody was generated by immunizing BALB/c mice with type IV collagenase.

Specificity: This antibody is specific for type IV collagenase.

Application Notes: The immunoreactivity of the original format of this antibody (mouse IgG1, κ) was measured via ELISA and was shown to decrease by approximately 10%-20% after cold iodination with ¹³¹iodide. The (¹³¹I)-labeled version of this antibody was demonstrated to be stable *in vitro* for almost 72 h. The blood clearance pattern of (¹²⁵I)-labeled 3G11 was defined as a two-compartment model, with a 7.2 h $T_{1/2\alpha}$ and a 345.2 h $T_{1/2\beta}$, and clear scintigraphic images of human lung carcinoma PG were obtained using (¹²⁵I)-labeled 3G11 at 72 h, which further improved at 120 h (Dai et al., 2003; PMID: 14693044). Lidamycin (LDM) was conjugated to the Fab version of this antibody, and the resulting immunoconjugate maintained most of its immunoreactivity to both type IV collagenase and mouse hepatoma 22 cells, as shown by ELISA, and exhibited more potent cytotoxicity to hepatoma 22 cells than free LDM by MTT assay. Furthermore, when administered intravenously, the Fab'-LDM conjugate was proven to be more effective against the growth of subcutaneously transplanted hepatoma 22 in mice than free LDM in two experiment settings, increasing mice survival time (Fengqiang et al., 2004; PMID: 15382678). The scFv version of this antibody was constructed and used in various configurations for IF and *in vivo* imaging and therapeutic applications (Zhong et al., 2010; PMID: 20303650) (Kong et al., 2015; PMID: 25824464).

Antibody First Published in: Dai et al. [Immunoscintigraphy of anti-type IV collagenase monoclonal antibody in nude mice bearing human lung cancer xenograft] Ai Zheng. 2003 Dec;22(12):1243-8.

[PMID:14693044](#)

Note on publication: The original publication focuses on evaluating the tumor-specific distribution of the

anti-type IV collagenase monoclonal antibody (mAb) 3G11 through radio imaging in tumor-bearing nude mice.

Product Form

Size: 500 µg 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.