



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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## Anti-Collagenase type IV [3G11] Standard Size Ab04210-30.11

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,  $\kappa$ ) was measured via ELISA and was shown to decrease by approximately 10%-20% after cold iodination with  $^{131}$ -iodide. The ( $^{131}$ )I-labeled version of this antibody was demonstrated to be stable *in vitro* for almost 72 h. The blood clearance pattern of ( $^{125}$ )I-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 ( $^{125}$ )I-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:** 100 µg Purified antibody.

**Purification:** Purified by Immobilized Metal Affinity Chromatography

**Supplied In:** PBS with 0.02% Proclin 300.

**Storage Recommendation:** Store at 4°C for up to 3 months. 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.