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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-FAP [73.3] Standard Size Ab03229-23.0

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: 73.3

Alternative Name(s) of Target: Fibroblast activation protein; Fibroblast activation protein- α ; Prolyl endopeptidase FAP; Dipeptidyl peptidase FAP; Fibroblast activation protein alpha; FAPalpha1; Gelatine degradation protease FAP; Integral membrane serine protease; Post-proline cleaving enzyme; Serine integral membrane protease; SIMP; Surface-expressed protease; Seprase

UniProt Accession Number of Target Protein: P97321

Published Application(s): in vitro, in vivo, IP, WB, FC

Published Species Reactivity: Mouse

Immunogen: The original antibody was generated by immunizing FAP-null mice with FAP-expressing 3T3 cells.

Specificity: The antibody is specific for fibroblast activation protein (FAP). FAP is a membrane protease that is highly expressed by cancer-associated fibroblasts (CAFs).

Application Notes: A second-generation retroviral CAR, consisting of the scFv fragment of the antibody, with CD8 stalk, human CD3 ζ and 4-1BB domains, targeting mouse FAP was developed. The Fap-CAR-T cells killed FAP-expressing 3T3 target cells specifically. The FAP-CAR-T cells were tested in vivo in three different established models, showing that the growth of tumors was significantly reduced by 35–50% following treatment. Further, the anti-FAP-CAR T cells demonstrated enhanced antitumor response when combined with a tumor vaccine. No significant toxicity was observed in the treated mice. (Wang et al., 2014; PMID: 24778279) FAP+ cells were identified using flow cytometry of lung tissue using the antibody (Kimura et al., 2019; PMID: 31188013). This antibody was used for detection of murine FAP expression on HT1080 cells by flow cytometry (de Sostoa et al. 2019, PMID: 30683154). Immunoprecipitation of FAP was performed on lung homogenate using this antibody. The antibody detected FAP by western blot analysis (Fan et al., 2016; PMID: 26663085).

Antibody First Published in: Wang et al. Targeting fibroblast activation protein in tumor stroma with chimeric antigen receptor T cells can inhibit tumor growth and augment host immunity without severe toxicity *Cancer Immunol Res.* 2014 Feb;2(2):154-66. PMID:24778279

Note on publication: The paper describes the generation of the antibody and the generation of the anti-

muFAP-CAR construct.

Product Form

Size: 200 µg Purified antibody.

Purification: Protein A affinity purified

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.