Datasheet for ABIN7543357

Recombinant anti-FAP antibody

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Overview

Quantity:	200 µg
Target:	FAP
Reactivity:	Mouse
Host:	Mouse
Antibody Type:	Recombinant Antibody
Clonality:	Monoclonal
Conjugate:	This FAP antibody is un-conjugated
Application:	Western Blotting (WB), Immunoprecipitation (IP), Flow Cytometry (FACS), In vivo Studies (in vivo), In vitro Assay (in vitro)

Product Details

Purpose:	Anti-FAP [73.3], Mouse IgG1, kappa
Immunogen:	The original antibody was generated by immunizing FAP-null mice with FAP-expressing 3T3 cells.
Clone:	73-3
Isotype:	IgG1 kappa
Specificity:	The antibody is specific for fibroblast activation protein (FAP). FAP is a membrane protease that is highly expressed by cancer-associated fibroblasts (CAFs).
Characteristics:	Original Species of Ab: Mouse Original Format of Ab: IgG1

Product Details

Purification:	Protein A affinity purified

Target Details

Target:	FAP
Alternative Name:	FAP (FAP Products)
Background:	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:	P97321
Pathways:	Tube Formation

Application Details

Application Notes:	A second-generation retroviral CAR, consisting of the scFv fragment of the antibody, with CD8 stalk, human CD3ζ 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 humogenate using this antibody. The antibody detected FAP by western blot analysis (Fan et al., 2016, PMID: 26663085).
Restrictions:	For Research Use only

Handling

Concentration:	1 mg/mL
Buffer:	PBS with 0.02 % Proclin 300.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be

Handling

	handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.