

Datasheet for ABIN349584
anti-FAP antibody (Internal Region)[Go to Product page](#)

2 Images

Overview

| | |
|----------------------|------------------------------------|
| Quantity: | 100 µg |
| Target: | FAP |
| Binding Specificity: | Internal Region |
| Reactivity: | Mouse |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This FAP antibody is un-conjugated |
| Application: | Western Blotting (WB), ELISA |

Product Details

| | |
|------------------|--|
| Immunogen: | <p>This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to an internal region of mouse FAP protein.</p> <p>Immunogen Type: Peptide</p> |
| Isotype: | IgG |
| Specificity: | <p>This product was affinity purified from monospecific antiserum by immunoaffinity chromatography. This antibody is known to react with mouse FAP protein. A BLAST analysis was used to suggest partial cross-reactivity with FAP from human and rat sources based on ~88% homology with the immunizing sequence. Reactivity with FAP from other sources has not been determined.</p> |
| Characteristics: | This antibody is designed, produced, and validated as part of a collaboration with the National |

Product Details

Cancer Institute (NCI) and is suitable for Cancer, Immunology and Nuclear Signaling research. Fibroblast Activation Protein (FAP) is expressed in the stroma of sites that are undergoing wound healing. In addition, it has recently been reported that FAP is expressed in the stroma of sites of metastatic disease. Inhibition of FAP may lead to a dramatic decrease in the number of metastatic osteosarcoma lung nodules. FAP exists as an inactive monomer and when activated forms homodimers or heterodimers with DPP4. Multiple isoforms of FAP are reported as alternative splicing products from a common gene.

Purification: purified

Sterility: Sterile filtered

Target Details

Target: FAP

Alternative Name: Fibroblast Activation Protein ([FAP Products](#))

Background: This antibody is designed, produced, and is suitable for Cancer, Immunology and Nuclear Signaling research. Fibroblast Activation Protein (FAP) is expressed in the stroma of sites that are undergoing wound healing. In addition, it has recently been reported that FAP is expressed in the stroma of sites of metastatic disease. Inhibition of FAP may lead to a dramatic decrease in the number of metastatic osteosarcoma lung nodules. FAP exists as an inactive monomer and when activated forms homodimers or heterodimers with DPP4. Multiple isoforms of FAP are reported as alternative splicing products from a common gene.

Synonyms: 170 kDa melanoma membrane bound gelatinase antibody, DPPIV antibody, Integral membrane serine protease antibody, FAPA antibody, Seprase antibody

Gene ID: 14089, 6679749

UniProt: [P97321](#)

Pathways: [Tube Formation](#)

Application Details

Application Notes: This affinity purified antibody has been tested for use in ELISA and western blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 88 kDa in size corresponding to FAP by western blotting in the appropriate cell lysate or extract.

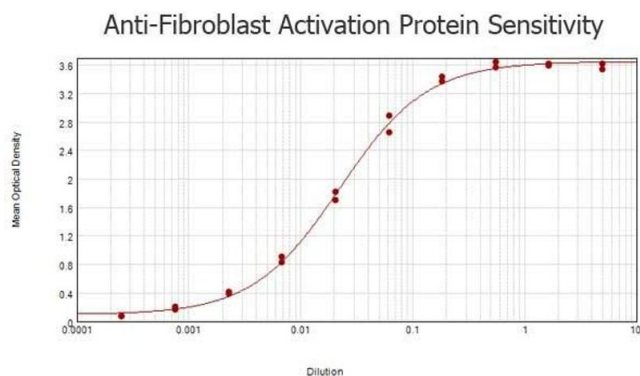
Comment: Gene Name: FAP

Restrictions: For Research Use only

Handling

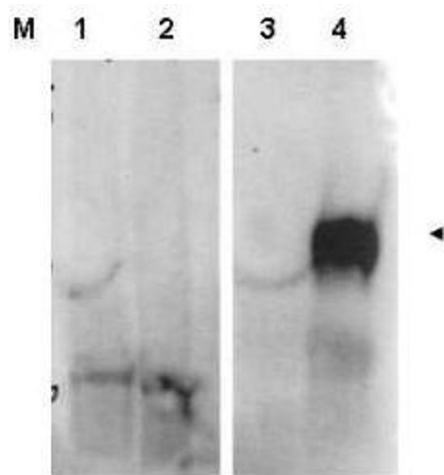
| | |
|--------------------|---|
| Format: | Liquid |
| Concentration: | 0.81 mg/mL |
| Buffer: | 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage: | 4 °C/-20 °C |
| Storage Comment: | Store vial at 4 °C prior to restoration. For extended storage aliquot contents and freeze at -20 °C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4 °C as an undiluted liquid. Dilute only prior to immediate use. Expiration date is three (3) months from date of opening. |
| Expiry Date: | 3 months |

Images



ELISA

Image 1. ELISA results of purified Rabbit anti-Fibroblast Activation Protein (FAP) Antibody tested against BSA-conjugated peptide of immunizing peptide. Each well was coated in duplicate with 0.1µg of conjugate. The starting dilution of antibody was 5µg/ml and the X-axis represents the Log10 of a 3-fold dilution. This titration is a 4-parameter curve fit where the IC50 is defined as the titer of the antibody. Assay performed using 3% fish gel, Goat anti-Rabbit IgG Antibody Peroxidase Conjugated (Min X Bv Ch Gt GP Ham Hs Hu Ms Rt & Sh Serum Proteins) and TMB ELISA Peroxidase Substrate .



Western Blotting

Image 2. Western blot using affinity purified anti-FAP antibody shows detection of FAP protein in whole cell lysates from FAP expressing HEK cells (lane 4) but not control HEK cells (lane 3). Specific band staining is blocked when the primary antibody is pre-incubated with immunizing peptide (lanes 1 and 2 respectively). The band at ~90 kDa, indicated by the arrowhead, corresponds to the expected molecular weight of transfected FAP. Primary antibody was used at 1:1,000. Personal communication, S.Kim, NCI, Bethesda, MD.