

Certificate of Analysis

Product: Affinity Purified Anti-Fibroblast Activation Protein (FAP) [Rabbit] TRIAL SIZE

Code: 600-401-A73S

Lot # 20517

Size: 25 μ l

Physical State: Liquid (sterile filtered)

Antibody Concentration: 0.65 mg/ml (by UV absorbance at 280 nm)

Storage Conditions for Trial Size: Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 μ l). To minimize loss of volume dilute 1:10 by adding 225 μ l of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20° C or below after dilution. Avoid cycles of freezing and thawing. Expiration date is three (3) months from date of opening.

Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Stabilizer: None

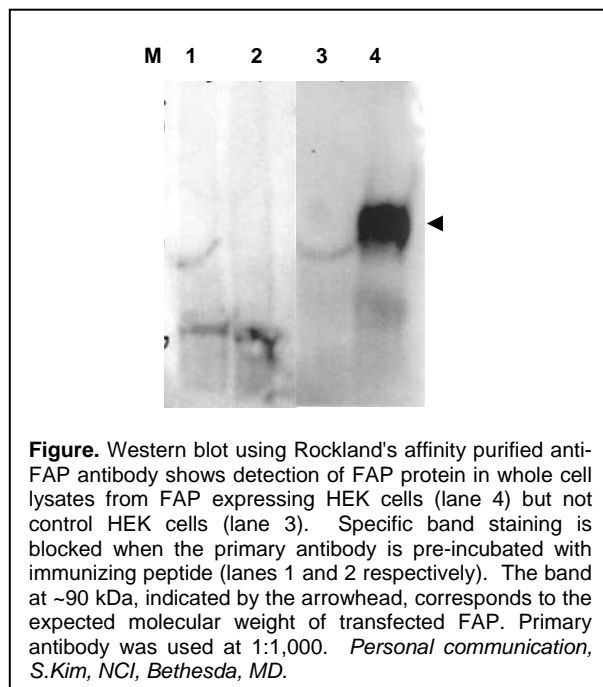
Preservative: 0.01% (w/v) Sodium Azide

Background Information: 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.

Application Note(s): 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.

Recommended Dilutions:

ELISA	1:100,000
WESTERN BLOT	1:500 to 1:2,000
IMMUNOPRECIPITATION	User Optimized
OTHER APPLICATIONS	User Optimized



Purity and Specificity: 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.

Immunogen: 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.

Relevant Links: NCBI [NP_032012](#) Swiss-Prot [P97321](#)

Related Products:

#[611-703-127](#) Peroxidase Conjugated Affinity Purified Anti-RABBIT IgG (H&L) (DONKEY) MX10
 #[611-132-122](#) IRDye® 800 Conjugated Affinity Purified Anti-RABBIT IgG (H&L) (GOAT) MX10
 #[B501-0500](#) BLOTTO (500 g)
 #[BSA-30](#) 30% BOVINE SERUM ALBUMIN SOL'N in 0.85% sodium chloride (no preservative or stabilizer) (500 ml)
 #[B304](#) NORMAL GOAT SERUM (NGS) (10 ml)
 #[KIA-003](#) **MaxTag™** Anti-RABBIT IgG Kit for Immunoblotting
 #[MB-070](#) Blocking Buffer for Fluorescent Western Blotting

General References:

Cheng, J.D., Valianou, M., Canutescu, A.A., Jaffe, E.K., Lee, H.O., Wang, H., Lai, J.H., Bachovchin, W.W. and Weiner, L.M. (2005) Abrogation of fibroblast activation protein enzymatic activity attenuates tumor growth. *Mol. Cancer Ther.* **4** (3), 351-360.

Ramirez-Montagut, T., Blachere, N.E., Sviderskaya, E.V., Bennett, D.C., Rettig, W.J., Garin-Chesa, P. and Houghton, A.N. (2004) FAPalpha, a surface peptidase expressed during wound healing, is a tumor suppressor. *Oncogene* **23** (32), 5435-5446.

Niedermeyer, J., Garin-Chesa, P., Kriz, M., Hilberg, F., Mueller, E., Bamberger, U., Rettig, W.J. and Schnapp, A. (2001) Expression of the fibroblast activation protein during mouse embryo development. *Int. J. Dev. Biol.* **45** (2), 445-447.

Niedermeyer, J., Kriz, M., Hilberg, F., Garin-Chesa, P., Bamberger, U., Lenter, M.C., Park, J., Viertel, B., Puschner, H., Mauz, M., Rettig, W.J. and Schnapp, A. (2000) Targeted disruption of mouse fibroblast activation protein. *Mol. Cell. Biol.* **20** (3), 1089-1094.

Niedermeyer, J., Enenkel, B., Park, J.E., Lenter, M., Rettig, W.J., Damm, K. and Schnapp, A. (1998) Mouse fibroblast-activation protein--conserved Fap gene organization and biochemical function as a serine protease. *Eur. J. Biochem.* **254** (3), 650-654.

Garin-Chesa, P., Old, L.J. and Rettig, W.J. (1990). Cell surface glycoprotein of reactive stromal fibroblasts as a potential antibody target in human epithelial cancers. *Proc. Nat'l Acad. Sci. USA* **87**:7235.

Rettig, W.J., Garin-Chesa, P., Beresford, H.R., Oettgen, H.F., Melamed, M.R. and Old, L.J. (1988) Cell surface glycoproteins of human sarcomas: differential expression in normal and malignant tissues and cultured cells. *Proc. Nat'l Acad. Sci. USA* **85**:3110.

Note: This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 326, Gilbertsville, Pennsylvania, USA.