

Datasheet for 600-401-A73**Fibroblast Activation Protein Antibody****Overview**

Description:	Anti-Fibroblast Activation Protein (FAP) (RABBIT) Antibody - 600-401-A73
Item No.:	600-401-A73
Size:	100 µg
Applications:	ELISA, WB
Reactivity:	Mouse
Host Species:	Rabbit

Product Details

Background:	This antibody is designed, produced, and validated as part of a collaboration between Rockland and the National 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.
Synonyms:	rabbit anti-Fap antibody, Fibroblast activation protein alpha, Prolyl endopeptidase FAP, Dipeptidyl peptidase FAP, Integral membrane serine protease antibody, FAPA antibody, Gelatine degradation protease FAP, Surface-expressed protease, SIMP, Seprase, APCE
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	Fap
Reactivity:	Mouse
Immunogen Type:	Conjugated Peptide

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.
Purity/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.
Relevant Links:	• NCBI - 6679749 • UniProtKB - P97321 • GeneID - 14089

Application Details

Tested Applications:	ELISA, WB
Application Note:	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.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000 - 1:20,000
WB:	1:500 to 1:2,000

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.03 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

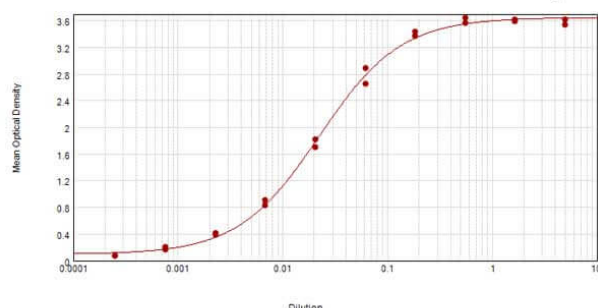
Shipping Condition:	Dry Ice
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Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

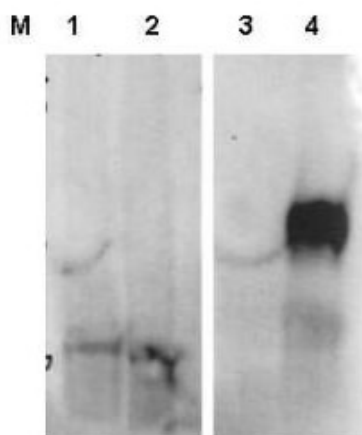
Images

Anti-Fibroblast Activation Protein Sensitivity



ELISA

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) (p/n 611-103-122) and TMB ELISA Peroxidase Substrate (p/n TMBE-1000).



Western Blot

Western blot using Rockland's 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.

Disclaimer

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 5199, Limerick, Pennsylvania, USA.