

Product Datasheet

Fibroblast Activation Protein alpha/FAP Antibody - BSA Free NB110-85534

Unit Size: 0.1 mg

Store at -20C short term. Aliquot and store at -80C long term. Avoid freeze-thaw cycles.

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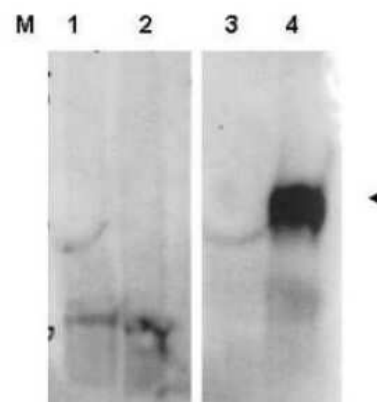


NB110-85534**Fibroblast Activation Protein alpha/FAP Antibody - BSA Free**

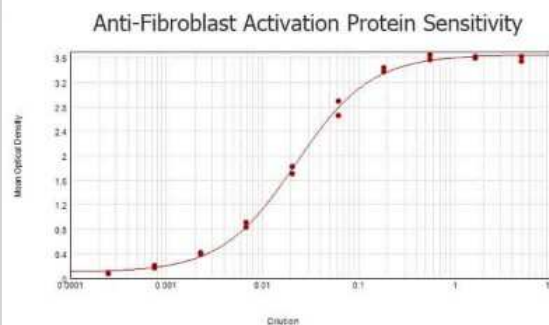
Product Information	
Unit Size	0.1 mg
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at -20C short term. Aliquot and store at -80C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.01% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Product Description	
Description	<p>This product was affinity purified from monospecific antiserum by immunoaffinity chromatography</p> <p>Store vial at -20C prior to opening. Aliquot contents and freeze at -20C 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 4C as an undiluted liquid. Dilute only prior to immediate use.</p>
Host	Rabbit
Gene ID	2191
Gene Symbol	FAP
Species	Human, Mouse
Reactivity Notes	A BLAST analysis was used to suggest partial cross-reactivity with Fibroblast Activation Protein alpha/FAP from human and rat sources based on ~88% homology with the immunizing sequence. Reactivity with Fibroblast Activation Protein alpha/FAP from other sources has not been determined. Human reactivity reported from a verified customer review.
Immunogen	This affinity purified Fibroblast Activation Protein alpha/FAP Antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to an internal region of mouse Fibroblast Activation Protein alpha/Fibroblast Activation Protein alpha/FAP protein. (Uniprot: P97321)
Product Application Details	
Applications	Western Blot, ELISA, Flow Cytometry
Recommended Dilutions	Western Blot 1:500-1:2000, Flow Cytometry Validated for Flow Cytometry from a verified customer review., ELISA 1:10000-1:20000
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.

Images

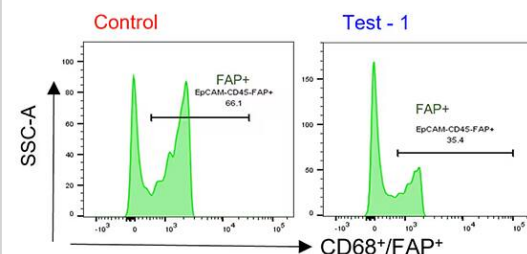
Western Blot: Fibroblast Activation Protein alpha/FAP Antibody [NB110-85534] - Western blot using affinity purified anti-Fibroblast Activation protein alpha/Fibroblast Activation Protein alpha/FAP antibody shows detection of Fibroblast Activation Protein alpha/FAP protein in whole cell lysates from Fibroblast Activation Protein alpha/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 Fibroblast Activation Protein alpha/FAP. Primary antibody was used at 1:1,000.



ELISA: Fibroblast Activation Protein alpha/FAP Antibody [NB110-85534] - ELISA results of purified Fibroblast Activation protein alpha/FAP antibody tested against BSA-conjugated peptide of immunizing peptide. Each well was coated in duplicate with 0.1ug of conjugate. The starting dilution of antibody was 5ug/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.



Flow Cytometry: Fibroblast Activation Protein alpha/FAP Antibody [NB110-85534] - Specific co-culture system created to study human macrophage cancer cells' conduction of MMT process, and Fibroblast Activation Protein alpha/FAP Antibody [Alexa Fluor® 488] (Catalog # NB110-85534AF488) was used as a myo-CAFs marker. Image from a verified customer review.



Publications

Ye Z, Pan J, Yin Z et al. Dendritic cells infected with recombinant adenoviral vector encoding mouse fibroblast activation protein- α and human livin γ exert an antitumor effect against Lewis lung carcinoma in mice *Immun Inflamm Dis* 2023-09-27 [PMID: 37773704] (Western Blot)

Li X, Yong T, Wei Z et al. Reversing insufficient photothermal therapy-induced tumor relapse and metastasis by regulating cancer-associated fibroblasts *Nature communications* 2022-05-19 [PMID: 35589680] (WB, Mouse)

Xie J, Yuan S, Peng L et al. Antitumor immunity targeting fibroblast activation protein α in a mouse Lewis lung carcinoma model *Oncol Lett* 2020-05-18 [PMID: 32566014] (WB, Mouse)

Zhou Z, Zhou Q, Wu X, et al. VCAM-1 Secreted from Cancer-Associated Fibroblasts Enhances the Growth and Invasion of Lung Cancer Cells through AKT and MAPK Signaling *Cancer Letters* 2020-01-01 [PMID: 31904479] (WB)



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Products Related to NB110-85534

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
DPC900	Fibroblast Activation Protein alpha/FAP [HRP]

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

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