


## Product datasheet

# Anti-Fibroblast activation protein, alpha antibody [SP325] $\alpha$ b227703

Recombinant RabMAb

★★★★★ [4 Abreviews](#) [4 References](#) [10 Images](#)

### Overview

<b>Product name</b>	Anti-Fibroblast activation protein, alpha antibody [SP325]
<b>Description</b>	Rabbit monoclonal [SP325] to Fibroblast activation protein, alpha
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, WB <b>Unsuitable for:</b> Flow Cyt or ICC
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Cow 
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	IHC-P: Human melanoma, colon adenocarcinoma, ovarian adenocarcinoma, pancreatic adenocarcinoma, lung squamous cell carcinoma, skin squamous cell carcinoma and cervical squamous cell carcinoma tissues. WB: HFF-1 cell lysate.
<b>General notes</b>	<b>This product is FOR RESEARCH USE ONLY. For commercial use, please contact <a href="mailto:partnerships@abcam.com">partnerships@abcam.com</a>.</b>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.60 Preservative: 0.1% Sodium azide Constituents: PBS, 1% BSA
<b>Purity</b>	Protein A/G purified
<b>Purification notes</b>	Purified from TCS by protein A/G.
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	SP325
<b>Isotype</b>	IgG

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab227703 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P	★ ★ ★ ★ ★ (4)	1/100. Perform heat mediated antigen retrieval with EDTA buffer pH 8.0 before commencing with IHC staining protocol. Primary antibody incubation for 10 minutes at room temperature.
WB		1/0.176. Predicted molecular weight: 88 kDa.

### Application notes

Is unsuitable for Flow Cyt or ICC.

## Target

### Function

In association with DPP4 is involved in the pericellular proteolysis of the extracellular matrix (ECM), the migration and invasion of endothelial cells into the ECM. May have a role in tissue remodeling during development and wound healing, and may contribute to invasiveness in malignant cancers.

### Tissue specificity

Fibroblast specific.

### Sequence similarities

Belongs to the peptidase S9B family.

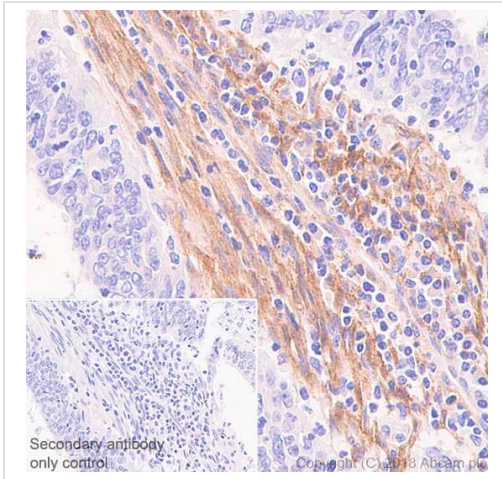
### Post-translational modifications

N-glycosylated.  
The N-terminus may be blocked.

### Cellular localization

Cell membrane. Cell projection > lamellipodium membrane. Cell projection > invadopodium membrane. Found in cell surface lamellipodia, invadopodia and on shed vesicles. Colocalized with DPP4 in invadopodia and lamellipodia of migratory activated endothelial cells in collagenous matrix. Colocalized with DPP4 on endothelial cells of capillary-like microvessels but not large vessels within invasive breast ductal carcinoma.

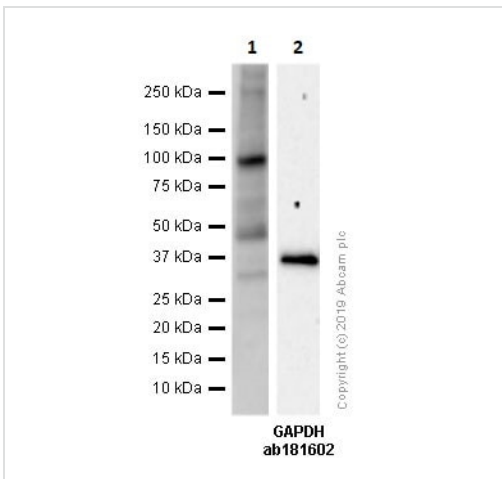
## Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Fibroblast activation protein, alpha antibody [SP325] (ab227703)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human colon carcinoma tissue sections labeling Fibroblast activation protein, alpha with ab227703 at 1/100 dilution (1.76 µg/ml). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 10 mins. Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) was used as the secondary antibody. Hematoxylin was used as a counterstain. Positive staining on the stroma in the human colon carcinoma, performed on a Leica Biosystems BOND™ RX instrument.

The section was incubated with ab227703 for 10 mins at room temperature.



Western blot - Anti-Fibroblast activation protein, alpha antibody [SP325] (ab227703)

**Lane 1 :** Anti-Fibroblast activation protein, alpha antibody [SP325] (ab227703) at 0.176 µg/ml (purified)

**Lane 2 :** Anti-GAPDH antibody [EPR16891] - Loading Control (**ab181602**)

**Lane 1 :** HFF-1 (Human Skin fibroblast) cell lysates

**Lane 2 :** HFF-1 (Human Skin fibroblast)

Lysates/proteins at 20 µg per lane.

### Secondary

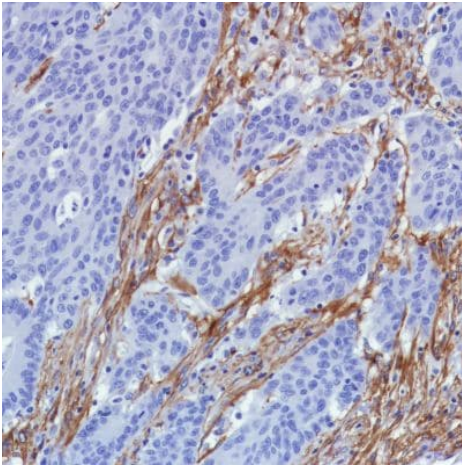
**Lane 1 :** Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 0.05 µg/ml

**Lane 2 :** Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 0.05 µg

**Predicted band size:** 88 kDa

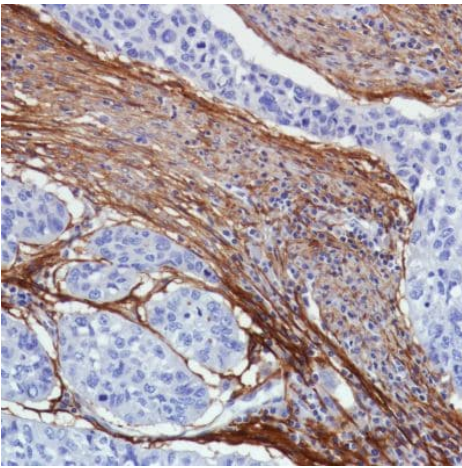
**Observed band size:** 95 kDa

Blocking/Diluting buffer: 5% NFDM /TBST



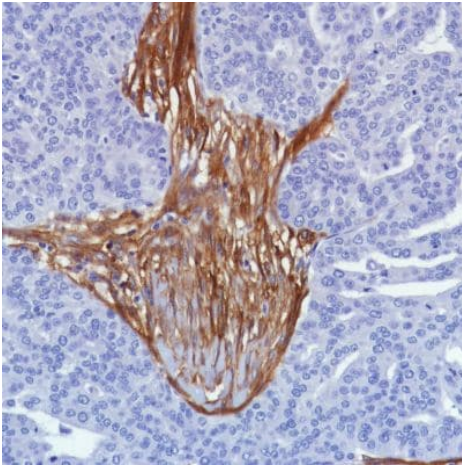
Formalin-fixed, paraffin-embedded human colon adenocarcinoma tissue stained for Fibroblast activation protein, alpha using ab227703 at 1/100 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Fibroblast activation protein, alpha antibody [SP325] (ab227703)



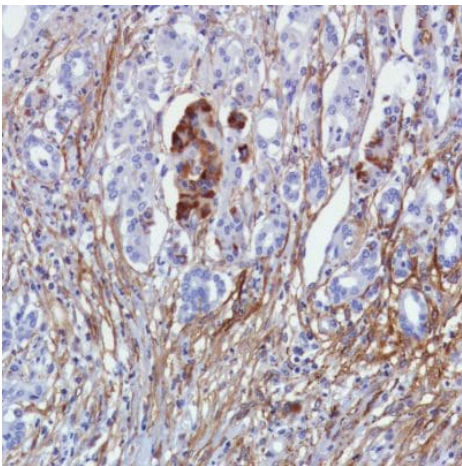
Formalin-fixed, paraffin-embedded human lung squamous cell carcinoma tissue stained for Fibroblast activation protein, alpha using ab227703 at 1/100 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Fibroblast activation protein, alpha antibody [SP325] (ab227703)



Formalin-fixed, paraffin-embedded human ovarian adenocarcinoma tissue stained for Fibroblast activation protein, alpha using ab227703 at 1/100 dilution in immunohistochemical analysis.

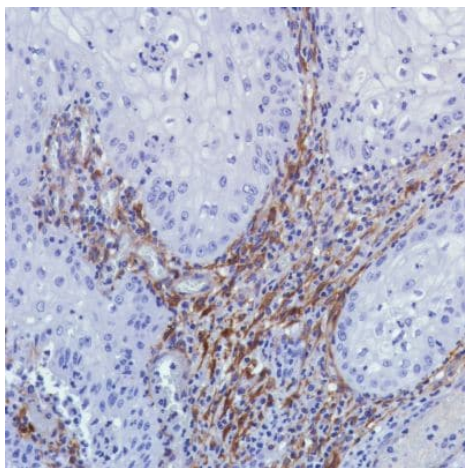
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Fibroblast activation protein, alpha antibody [SP325] (ab227703)



Formalin-fixed, paraffin-embedded human pancreatic adenocarcinoma tissue stained for Fibroblast activation protein, alpha using ab227703 at 1/100 dilution in immunohistochemical analysis.

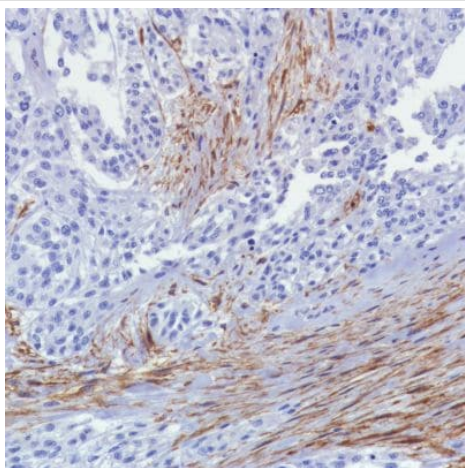
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Fibroblast activation protein, alpha antibody [SP325] (ab227703)





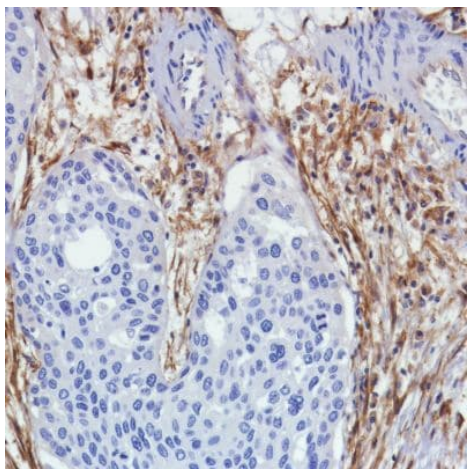
Formalin-fixed, paraffin-embedded human skin squamous cell carcinoma tissue stained for Fibroblast activation protein, alpha using ab227703 at 1/100 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Fibroblast activation protein, alpha antibody [SP325] (ab227703)



Formalin-fixed, paraffin-embedded human melanoma tissue stained for Fibroblast activation protein, alpha using ab227703 at 1/100 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Fibroblast activation protein, alpha antibody [SP325] (ab227703)



Formalin-fixed, paraffin-embedded human cervical squamous cell carcinoma tissue stained for Fibroblast activation protein, alpha using ab227703 at 1/100 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Fibroblast activation protein, alpha antibody [SP325] (ab227703)

### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-Fibroblast activation protein, alpha antibody  
[SP325] (ab227703)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- Response to your inquiry within 24 hours

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- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

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