Anti-Fibroblast activation protein, alpha antibody

ab53066

Product name

Anti-Fibroblast activation protein, alpha antibody

Description

Rabbit polyclonal to Fibroblast activation protein, alpha

Host species

Rabbit

Specificity

ab53066 detects endogenous levels of total Fibroblast activation protein, alpha. Please note the immunogen used to produce this product has 92% homology with Mouse DPPIV/CD26.

Tested applications

Suitable for: WB, IHC-P

Species reactivity

Reacts with: Human

Immunogen

Synthetic peptide corresponding to Human Fibroblast activation protein, alpha. A synthetic peptide derived from human Fibroblast activation protein, alpha. Peptide available as ab150744. Database link: Q12884 (Peptide available as ab150744)

Positive control

Human breast carcinoma tissue and LOVO cell extracts.

General notes

The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Form

Liquid

Storage instructions

Store at -20°C. Stable for 12 months at -20°C

Storage buffer

pH: 7
Preservative: 0.02% Sodium azide
 Constituents: 50% Glycerol, 0.87% Sodium chloride, PBS

Without Mg+2 and Ca+2

Purity

Immunogen affinity purified
Purification notes
ab53066 was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Clonality
Polyclonal

Isotype
IgG

Applications

The Abpromise guarantee
Our Abpromise guarantee covers the use of ab53066 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>WB</td>
<td>★★★★★☆☆ (4)</td>
<td>1/500 - 1/1000. Detects a band of approximately 90 kDa. Please see WB protocol details in the image legend.</td>
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<tr>
<td>IHC-P</td>
<td>★★★★★☆☆ (5)</td>
<td>1/50 - 1/100. Antigen retrieval: Microwave method - put the slice into 10 mmol/L citrate buffer (pH 6.0), microwave high temperature for 5 minutes, and then medium temperature for 15 minutes. Primary antibody incubation: 1 hour at 37°C Secondary antibody: Poly-HRP-Anti Mouse/Rabbit IgG, 50 µL for 30 minutes.</td>
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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
Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue sections labeling Fibroblast activation protein, alpha with ab53066 (without peptide-right and with peptide- left).

**All lanes**: Anti-Fibroblast activation protein, alpha antibody (ab53066) at 1/500 dilution

**Lane 1**: LOVO cell extract

**Lane 2**: LOVO cell extract at 40 µg with immunising peptide

**Observed band size**: 90 kDa

Blocking buffer: 5% (w/v) non-fat dry milk in TBST.

Primary antibody dilution buffer: 5%(w/v)non-fat dried milk,0.1% (v/v), Tween-20 in TBST.

Secondary antibody dilution buffer: 5%(w/v)non-fat dried milk,0.1% (v/v),Tween-20 in TBST.

12% SDS gel. Nitrocellulose membrane.

Blocking: Room temperature for 2 hours or overnight at 4°C. Then wash 3x for 5 minutes with 0.05% blocking buffer.

Primary antibody incubation: diluted in TBST at 1/500. Incubate overnight with 4 degrees shaking. Then, in 0.05% TBST, wash membrane 3-4 times for 10min.

Secondary antibody incubation: diluted in TBST at 1/2000. Incubate
37°C for 1 hour. Then, in 0.05% TBST, wash membrane 3-4 times for 10min.
ECL development.

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

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