**Product datasheet**

**Anti-Fibroblast activation protein, alpha antibody ab53066**

★★★★☆ 10 Abviews  42 References  5 Images

**Overview**

**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
- ELISA
- IHC-Fr
- ICC/IF

**Species reactivity**  Reacts with: 
- Mouse
- Dog
- Human
- Monkey

**Immunogen**  A synthetic peptide derived from human Fibroblast activation protein, alpha. Peptide available as ab150744.

**Positive control**  Human breast carcinoma tissue and LOVO cell extracts.

**Properties**

**Form**  Liquid

**Storage instructions**  Store at -20°C. Stable for 12 months at -20°C

**Storage buffer**  Preservative: 0.02% Sodium Azide
- Constituents: 50% Glycerol, PBS (without Mg²⁺ and Ca²⁺), 150mM Sodium chloride, pH 7.4

**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**

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>
</tr>
</thead>
<tbody>
<tr>
<td>WB</td>
<td>★★★★★</td>
<td>1/500 - 1/1000. Detects a band of approximately 90 kDa. Can be blocked with Fibroblast activation protein or alpha peptide (ab150744).</td>
</tr>
<tr>
<td>IHC-P</td>
<td>★★★★★</td>
<td>1/50 - 1/100. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.</td>
</tr>
<tr>
<td>ELISA</td>
<td>★★</td>
<td>1/10000.</td>
</tr>
<tr>
<td>IHC-Fr</td>
<td>★★★★★★</td>
<td>Use at an assay dependent concentration. PubMed: 20861157</td>
</tr>
<tr>
<td>ICC/IF</td>
<td>★★★★★</td>
<td>Use at an assay dependent concentration.</td>
</tr>
</tbody>
</table>

**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**
**Western blot**

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

**Lane 1:** LOVO cell extract

**Lane 2:** LOVO cell extract with immunising peptide

**Observed band size:** 90 kDa

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**Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)**

ab53066 staining Fibroblast activation protein alpha in Monkey spleen tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde; antigen retrieval was by heat mediation with Tris/EDTA (pH9). Samples were incubated with primary antibody (1/100 in a commercial diluent) for 30 minutes at 21°C. An undiluted HRP-conjugated Goat polyclonal was used as the secondary antibody.

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**Immunofluorescence analysis of Human cancer-associated fibroblasts**, staining Fibroblast activation protein, alpha with ab53066.
ab53066 staining Fibroblast activation protein, alpha in Dog cancerous tissue sections by Immunohistochemistry (IHC-P - formaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and antigen retrieval was by heat mediation in Tris/EDTA (pH 9.0) buffer. Samples were incubated with undiluted primary antibody (1/100 in antibody diluent) for 30 minutes at 21°C. An undiluted HRP-conjugated Goat anti-rabbit IgG polyclonal was used as the secondary antibody.

Immunofluorescence analysis of murine lung fibroblasts, staining Fibroblast activation protein with ab53066.

Cells were fixed with paraformaldehyde, permeabilized with 1% Triton X-100 and blocked with 5% BSA for 30 minutes at 20°C. Samples were incubated with primary antibody (1/100 in TBS) for 1 hour at 20°C. An AlexaFluor®555-conjugated goat anti-rabbit polyclonal IgG (1/400) was used as the secondary antibody.

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