Product datasheet

Anti-Fibroblast activation protein, alpha antibody [EPR20021] ab207178

Recombinant RabMAb

Overview

Product name Anti-Fibroblast activation protein, alpha antibody [EPR20021]
Description Rabbit monoclonal [EPR20021] to Fibroblast activation protein, alpha
Host species Rabbit
Tested applications Suitable for: WB, IHC-P
Species reactivity Reacts with: Human
Immunogen Recombinant fragment within Human Fibroblast activation protein, alpha aa 1-200. The exact sequence is proprietary.
Database link: Q12884

Positive control WB: WI-38, U-87 MG, HFF-1 and IMR-90 whole cell lysates. IHC-P: Human breast cancer and pancreatic cancer tissues.

General notes Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

This product is a recombinant rabbit monoclonal antibody.

Properties

Form Liquid
Storage buffer Preservative: 0.01% Sodium azide
Constituents: 59% PBS, 40% Glycerol, 0.05% BSA
Purity Protein A purified
Clonality Monoclonal
Clone number EPR20021
Isotype IgG
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

Images

Immunohistochemical analysis of paraffin-embedded human pancreatic cancer tissue labeling Fibroblast activation protein, alpha with ab207178 at 1/250 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution. Cell surface staining on stromal cells of human pancreas cancer is observed [PMID:2371645].

Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution.
**Western blot - Anti-Fibroblast activation protein, alpha antibody [EPR20021] (ab207178)**

**All lanes**: Anti-Fibroblast activation protein, alpha antibody [EPR20021] (ab207178) at 1/1000 dilution

**Lane 1**: HFF-1 (Human foreskin fibroblast cell line) whole cell lysate  
**Lane 2**: IMR-90 (Human lung fibroblast cell line) whole cell lysate  

Lysates/proteins at 10 µg per lane.

**Secondary**

**All lanes**: Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

**Predicted band size**: 88 kDa  
**Observed band size**: 95 kDa  
why is the actual band size different from the predicted?

Blocking/Dilution buffer: 5% NFDM/TBST.

Exposure time: Lane 1: 1 minute; Lane 2: 3 minutes.

The molecular weight is consistent with the literature (PMID: 10593948).

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**All lanes**: Anti-Fibroblast activation protein, alpha antibody [EPR20021] (ab207178) at 1/1000 dilution

**Lane 1**: WI-38 (Human fetal lung fibroblast cell line) whole cell lysate  
**Lane 2**: U-87 MG (Human glioblastoma-astrocytoma epithelial cell line) whole cell lysate  
**Lane 3**: Human fetal liver lysate  

Lysates/proteins at 10 µg per lane.

**Secondary**

**All lanes**: Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

**Predicted band size**: 88 kDa  
**Observed band size**: 95 kDa  why is the actual band size different from the predicted?
Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.
The molecular weight is consistent with the literature.
Negative control: Human fetal liver (PMID: 10593948, PMID: 9139873).

Immunohistochemical analysis of paraffin-embedded human breast cancer tissue labeling Fibroblast activation protein, alpha with ab207178 at 1/250 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution. Cell surface staining on stromal cells of human breast cancer is observed [PMID:18628473].

Counter stained with Hematoxylin.
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution.

Immunohistochemical analysis of paraffin-embedded human pancreas tissue labeling Fibroblast activation protein, alpha with ab207178 at 1/250 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution.

**Negative control:** no staining on human pancreas [PMID:22371645].

Counter stained with Hematoxylin.
Immunohistochemical analysis of paraffin-embedded human liver tissue labeling Fibroblast activation protein, alpha with ab207178 at 1/250 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution.

**Negative control:** no staining on human liver [PMID: 9139873].

Counter stained with Hematoxylin.

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Immunohistochemical analysis of formaldehyde fixed paraffin embedded human Ovarian carcinoma tissue sections labeling Fibroblast activation protein with ab207178 at 1/500. Biotin conjugated goat anti-rabbit IgG at 1/300 was used as the secondary antibody. Antigen retrieval was heat mediated using citric acid.

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

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