

Product datasheet

Anti-SFRP1 antibody [EPR7003] **ab126613**

Recombinant **RabMAb**

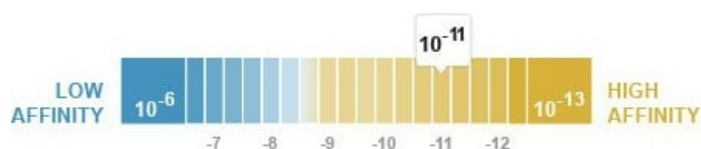
★★★★★ **2 Abreviews** **16 References** [7 Images](#)

Overview

Product name	Anti-SFRP1 antibody [EPR7003]
Description	Rabbit monoclonal [EPR7003] to SFRP1
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P Unsuitable for: Flow Cyt
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	Human heart, MDA-MB-435 and A375 lysates; Human heart muscle tissue.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle. Stable for 12 months at -20°C.
Dissociation constant (K_D)	K _D = 3.01 x 10 ⁻¹¹ M



[Learn more about K_D](#)

Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR7003
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab126613 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

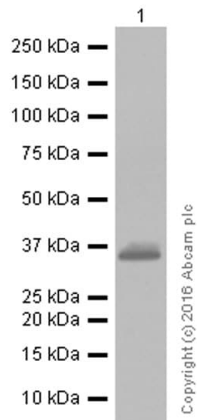
Application	Abreviews	Notes
WB	★★★★★ (1)	1/1000 - 1/10000. Predicted molecular weight: 35 kDa.
IHC-P	★★★★★ (1)	1/50 - 1/100. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

Application notes Is unsuitable for Flow Cyt.

Target

Function	Soluble frizzled-related proteins (sFRPS) function as modulators of Wnt signaling through direct interaction with Wnts. They have a role in regulating cell growth and differentiation in specific cell types. SFRP1 decreases intracellular beta-catenin levels (By similarity). Has antiproliferative effects on vascular cells, in vitro and in vivo, and can induce, in vivo, an angiogenic response. In vascular cell cycle, delays the G1 phase and entry into the S phase (By similarity). In kidney development, inhibits tubule formation and bud growth in metanephroi (By similarity). Inhibits WNT1/WNT4-mediated TCF-dependent transcription.
Tissue specificity	Widely expressed. Absent from lung, liver and peripheral blood leukocytes. Highest levels in heart and fetal kidney. Also expressed in testis, ovary, fetal brain and lung, leiomyoma cells, myometrial cells and vascular smooth muscle cells. Expressed in foreskin fibroblasts and in keratinocytes.
Sequence similarities	Belongs to the secreted frizzled-related protein (sFRP) family. Contains 1 FZ (frizzled) domain. Contains 1 NTR domain.
Domain	The FZ domain is involved in binding with Wnt ligands.
Cellular localization	Secreted. Cell membrane or extracellular matrix-associated. Released by heparin-binding.

Images



Western blot - Anti-SFRP1 antibody [EPR7003]
(ab126613)

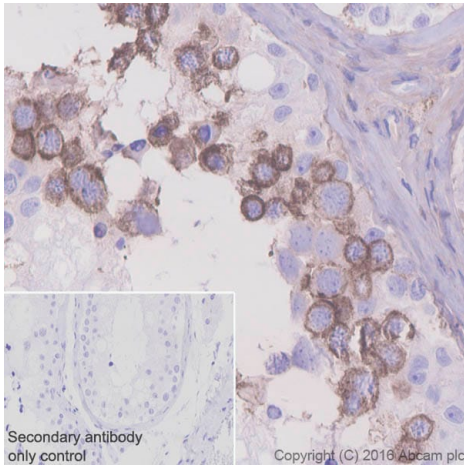
Anti-SFRP1 antibody [EPR7003] (ab126613) at 1/1000 dilution
(purified) + MDA-MB-435S (Human mammary gland ductal
carcinoma melanocyte) whole cell lysates at 15 µg

Secondary

Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at
1/10000 dilution

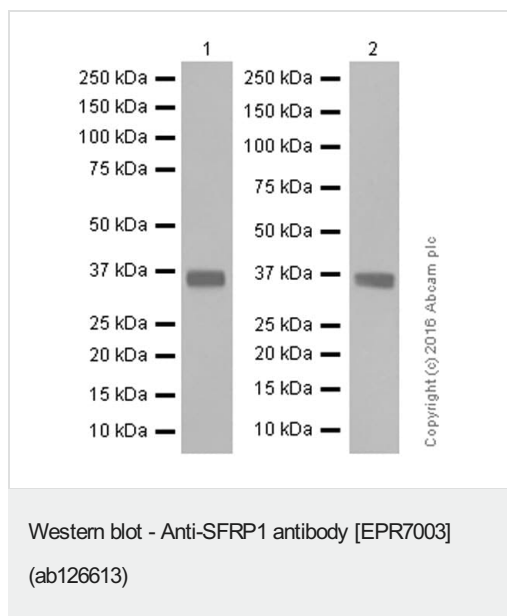
Predicted band size: 35 kDa

Blocking and diluting buffer: 5% NFDM/TBST



Immunohistochemistry (Formalin/PFA-fixed paraffin-
embedded sections) - Anti-SFRP1 antibody
[EPR7003] (ab126613)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded
sections) analysis of Human testis tissue sections labeling SFRP1
with Purified ab126613 at 1:50 dilution (8 µg/ml). Heat mediated
antigen retrieval was performed using [ab93684](#) (Tris/EDTA buffer,
pH 9.0). Tissue was counterstained with Hematoxylin.
ImmunoHistoProbe one step HRP Polymer (ready to use)
secondary antibody was used at 1:0 dilution. PBS instead of the
primary antibody was used as the negative control.



All lanes : Anti-SFRP1 antibody [EPR7003] (ab126613) at 1/5000 dilution (purified)

Lane 1 : Human fetal kidney lysates

Lane 2 : Human fetal heart lysates

Lysates/proteins at 15 µg per lane.

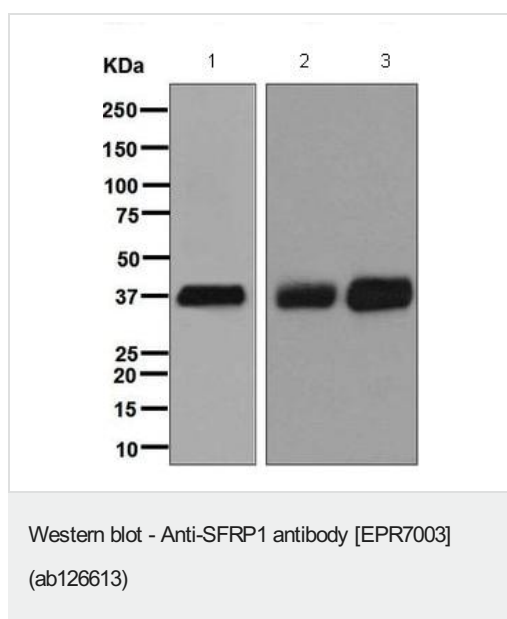
Secondary

All lanes : Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/10000 dilution

Predicted band size: 35 kDa

Observed band size: 36 kDa

Blocking and diluting buffer: 5% NFDM/TBST



All lanes : Anti-SFRP1 antibody [EPR7003] (ab126613) at 1/1000 dilution (unpurified)

Lane 1 : Human heart lysate

Lane 2 : MDA-MB-435 lysate

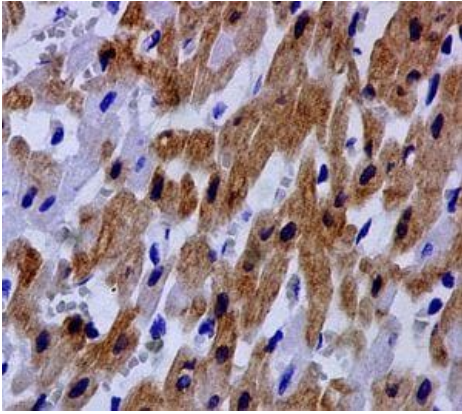
Lane 3 : A375 lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-rabbit HRP at 1/2000 dilution

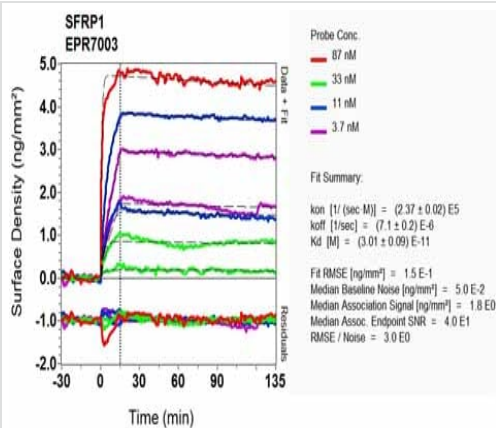
Predicted band size: 35 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SFRP1 antibody [EPR7003] (ab126613)

Unpurified ab126613, at 1/50 dilution, staining SFRP1 in Formalin-fixed, Paraffin-embedded Human heart muscle tissue by Immunohistochemistry.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Oscillation-RD Scanning - Anti-SFRP1 antibody [EPR7003] (ab126613)

Equilibrium dissociation constant (K_D)

Learn more about K_D

[Click here to learn more about \$K_D\$](#)

Why choose a recombinant antibody?



Anti-SFRP1 antibody [EPR7003] (ab126613)

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

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