Datasheet for ABIN129592

anti-SFRP1 antibody (AA 12)

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Overview

Quantity:	100 µg
Target:	SFRP1
Binding Specificity:	AA 12
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SFRP1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Immunogen:	SFRP1 antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to a region of human Sfrp1 protein.
Isotype:	IgG
Characteristics:	Concentration Definition: by UV absorbance at 280 nm

Target Details

Target:	SFRP1
Alternative Name:	SFRP1 (SFRP1 Products)
Background:	Anti-SFRP1 is a Stem Cell Antibody. SFRP1 (also known as FRP, FRP1, SARP2, Secreted Apoptosis-related Protein 2, Secreted Frizzled-related Protein and Secreted frizzled-related protein 1) is a member of the SFRP family that contains a cysteine-rich domain homologous to

Target Details

	the putative Wnt-binding site of Frizzled proteins. SFRPs act as soluble modulators of Wnt signaling. SFRP1 and SFRP5 may be involved in determining the polarity of photoreceptor cells in the retina. SFRP1 is expressed in several human tissues, with the highest levels in heart. Synonyms: Frizzled related protein 1 antibody, FRP 1 antibody, FRP antibody, FRP1 antibody, FrzA antibody, SARP 2 antibody, SARP2 antibody, Secreted Apoptosis-related Protein 2 antibody
Gene ID:	6422, 56117838
UniProt:	Q8N474
Pathways:	WNT Signaling, Intracellular Steroid Hormone Receptor Signaling Pathway, Negative Regulation of Hormone Secretion, Regulation of Intracellular Steroid Hormone Receptor Signaling, Stem Cell Maintenance, Tube Formation, Positive Regulation of fat Cell Differentiation

Application Details

Application Notes:	This affinity purified antibody has been tested for use in ELISA and by western blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 37 kDa in size corresponding to Sfrp1 by western blotting in the appropriate cell lysate or extract.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1.0 mg/mL
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C

Publications

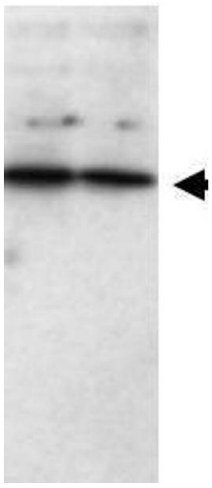
Product cited in:	Huang, Zhang, Teng, Lin, Zheng, Yang, Han: "Down-regulation of SFRP1 as a putative tumor suppressor gene can contribute to human hepatocellular carcinoma." in: **BMC cancer**, Vol. 7, pp. 126, (2007) (PubMed).

Publications

Garcia-Hoyos, Cantalapiedra, Arroyo, Esteve, Rodríguez, Riveiro, Trujillo, Ramos, Bovolenta, Ayuso: "Evaluation of SFRP1 as a candidate for human retinal dystrophies." in: **Molecular vision** , Vol. 10, pp. 426-31, (2004) (PubMed).

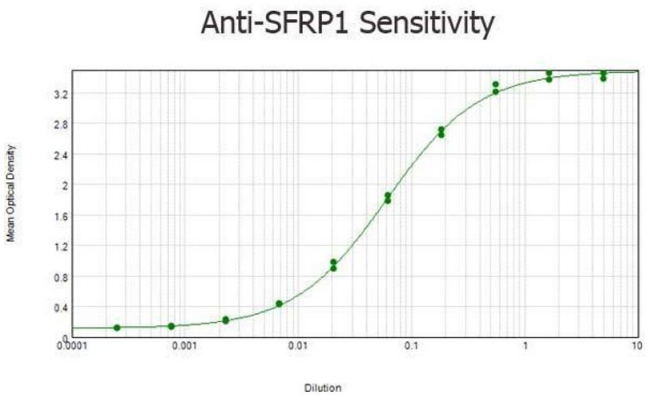
Han, Amar: "Secreted frizzled-related protein 1 (SFRP1) protects fibroblasts from ceramide-induced apoptosis." in: **The Journal of biological chemistry**, Vol. 279, Issue 4, pp. 2832-40, (2004) (PubMed).

Images



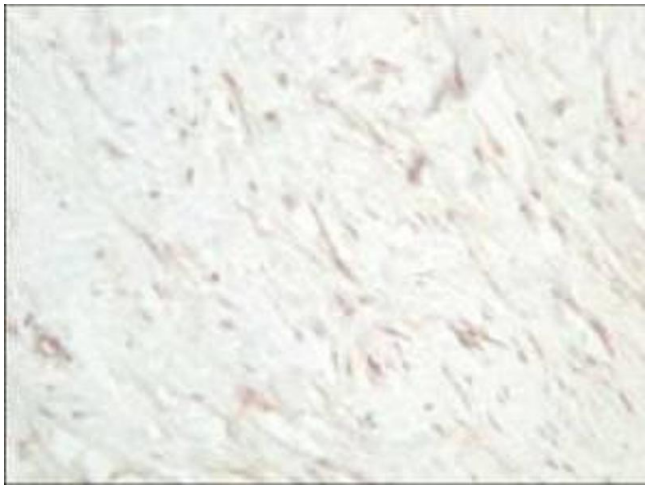
Western Blotting

Image 1. Western blot using Affinity Purified anti-SFRP1 antibody shows detection of a band ~37 kDa (arrowhead) corresponding to SFRP1 in lysates from human cultured airway epithelial cells. Lysates were run on a SDS-PAGE and transferred onto nitrocellulose followed by reaction with a 1:230 dilution of anti-SFRP1 antibody overnight at 4°C. Signal was detected using standard techniques. Personnel communication Becky Mercer, University of Columbia.



ELISA

Image 2. ELISA results of purified Rabbit anti-SFRP1 Antibody tested against BSA-conjugated peptide of immunizing peptide. Each well was coated in duplicate with 0.1µg of conjugate. The starting dilution of antibody was 5µg/ml and the X-axis represents the Log10 of a 3-fold dilution. This titration is a 4-parameter curve fit where the IC50 is defined as the titer of the antibody. Assay performed using 3% fish gel, Goat anti-Rabbit IgG Antibody Peroxidase Conjugated (Min X Bv Ch Gt GP Ham Hs Hu Ms Rt & Sh Serum Proteins) and TMB ELISA Peroxidase Substrate .



Immunohistochemistry

Image 3. Affinity Purified anti-Human SFRP1 antibody was used at a 1:800 dilution for 20 min to detect SFRP in human dermal hypertrophic scar tissue. Tissue was formalin-fixed followed by heat mediated antigen retrieval prior to blocking. HRP Gt-a-Rabbit IgG is suitable for secondary antibody detection.