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SFRP4 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP11574b

Product Information

Application	WB, FC, E
Primary Accession	Q6FHJ7
Other Accession	NP_003005.2
Reactivity	Human
Predicted	Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB19849
Calculated MW	39827
Antigen Region	318-346

Additional Information

Gene ID	6424
Other Names	Secreted frizzled-related protein 4, sFRP-4, Frizzled protein, human endometrium, FrpHE, SFRP4, FRPHE
Target/Specificity	This SFRP4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 318-346 amino acids from the C-terminal region of human SFRP4.
Dilution	WB~~1:1000 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	SFRP4 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SFRP4
Synonyms	FRPHE

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 (By similarity). SFRP4 plays a role in bone morphogenesis. May also act as a regulator of adult uterine morphology and function. May also increase apoptosis during ovulation possibly through modulation of FZ1/FZ4/WNT4 signaling (By similarity). Has phosphaturic effects by specifically inhibiting sodium-dependent phosphate uptake (PubMed:12952927).
Cellular Location	Secreted. Note=Cytoplasmic in ovarian tumor cells
Tissue Location	Expressed in mesenchymal cells. Highly expressed in the stroma of proliferative endometrium. Expressed in cardiomyocytes Shows moderate to strong expression in ovarian tumors with expression increasing as the tumor stage increases. In ovarian tumors, expression levels are inversely correlated with expression of CTNNB1 (at protein level).

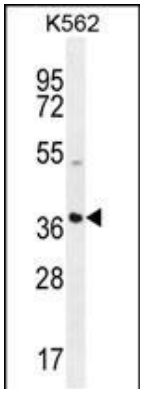
Background

Secreted frizzled-related protein 4 (SFRP4) is a member of the SFRP family that contains a cysteine-rich domain homologous to the putative Wnt-binding site of Frizzled proteins. SFRPs act as soluble modulators of Wnt signaling. The expression of SFRP4 in ventricular myocardium correlates with apoptosis related gene expression.

References

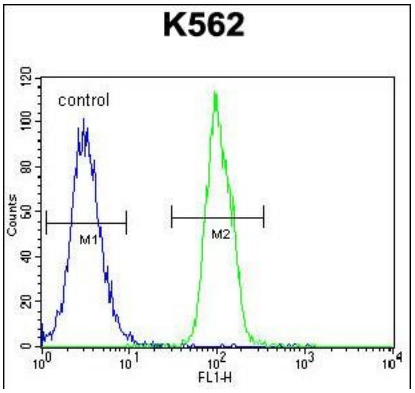
Lee, D.Y., et al. Menopause 17(5):1064-1070(2010)
Kohno, H., et al. Oncol. Rep. 24(2):423-431(2010)
Frank, B., et al. Carcinogenesis 31(8):1381-1386(2010)
Huang, D., et al. J. Cancer Res. Clin. Oncol. 136(3):395-401(2010)
Hirata, H., et al. Cancer 115(19):4488-4503(2009)

Images



SFRP4 Antibody (C-term) (Cat. #AP11574b) western blot analysis in K562 cell line lysates (35ug/lane).This demonstrates the SFRP4 antibody detected the SFRP4 protein (arrow).

SFRP4 Antibody (C-term) (Cat. #AP11574b) flow cytometric analysis of K562 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



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