

Anti-SFRP4 Picoband Antibody

Catalog # ABO12574

Product Information

Application	WB, IHC-P, E
Primary Accession	Q6FHJ7
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Secreted frizzled-related protein 4(SFRP4) detection. Tested with WB, IHC-P, ELISA in Human.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	6424
Other Names	Secreted frizzled-related protein 4, sFRP-4, Frizzled protein, human endometrium, FrpHE, SFRP4, FRPHE
Calculated MW	39827
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, Human, By Heat ELISA , 0.1-0.5 μ g/ml, Human, - Western blot, 0.1-0.5 μ g/ml, Human
Subcellular Localization	Secreted . Cytoplasmic in ovarian tumor cells.
Tissue Specificity	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). .
Source	Eukaryota
Protein Name	Secreted frizzled-related protein 4
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Immunogen	E. coli-derived human SFRP4 recombinant protein (Position: A22-K303). Human SFRP4 shares 96.8% and 96.1% amino acid (aa) sequence identity with mouse and rat SFRP4, respectively.

Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins.
Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

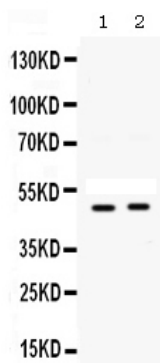
Protein Information

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

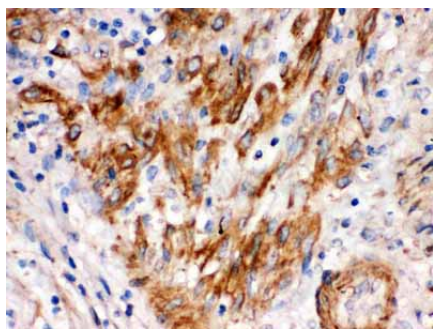
Secreted frizzled-related protein 4 (SFRP4) is a member of the SFRP family that contains a cysteine-rich domain homologous to the putative Wnt-binding site of Frizzled proteins. It is mapped to 7p14.1. The expression of SFRP4 in ventricular myocardium correlates with apoptosis related gene expression. And SFRP4 is a hub gene in a Type 2 Diabetes-associated gene coexpression module in human islets, and reduces glucose-induced insulin secretion through decreased β -cell exocytosis.

Images



Western blot analysis of SFRP4 expression in A549 whole cell lysates (lane 1) and SW620 whole cell lysates (lane 2). SFRP4 at 49KD was detected using rabbit anti- SFRP4 Antigen Affinity purified polyclonal antibody (Catalog # ABO12574) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method .

SFRP4 was detected in paraffin-embedded sections of human endometrial carcinoma tissues using rabbit anti



SFRP4 Antigen Affinity purified polyclonal antibody (Catalog # ABO12574) at 1 μ g/mL. The immunohistochemical section was developed using SABC method .

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.