

Anti-SFRP4 Antibody

Catalog # ABO12746

Product Information

Application	WB
Primary Accession	Q6FHJ7
Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Secreted frizzled-related protein 4(SFRP4) detection. Tested with WB in Human;Rat.
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	Western blot, 0.1-0.5 µg/ml, Human, Rat
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: E140-V346). Human SFRP4 shares 90% and 90.3% 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.
Sequence Similarities	Belongs to the secreted frizzled-related protein (sFRP) family.

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



Anti- SFRP4 Picoband antibody, ABO12746, Western blotting All lanes: Anti SFRP4 (ABO12746) at 0.5ug/ml Lane 1: Rat Cardiac Muscle Tissue Lysate at 50ug Lane 2: SKOV Whole Cell Lysate at 40ug Predicted bind size: 40KD Observed bind size: 40KD

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