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SFRP1 Rabbit pAb

Catalog # AP100107

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q8N474
Other Accession	Q8N474
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	35386
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SFRP1
Epitope Specificity	201-314/314
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the secreted frizzled-related protein (sFRP) family.Contains 1 FZ (frizzled) domain.Contains 1 NTR domain.
SUBUNIT	Interacts with WNT1, WNT2 and FRZD6. Interacts with WNT4 and WNT8.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a member of the SFRP family that contains a cysteine-rich domain homologous to the putative Wnt-binding site of Frizzled proteins. Members of this family act as soluble modulators of Wnt signaling; epigenetic silencing of SFRP genes leads to deregulated activation of the Wnt-pathway which is associated with cancer. This gene may also be involved in determining the polarity of photoreceptor cells in the retina. [provided by RefSeq, Sep 2009]

Additional Information

Gene ID	6422
Other Names	FRP; FRP-1; FRP1; FrzA; SARP2; 2210415K03Rik; sFRP-1; SFRP1_HUMAN; SFRP1; Secreted apoptosis-related protein 2 (SARP-2); SFRP1_MOUSE; secreted frizzled related protein 1
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	SFRP1
Synonyms	FRP, FRP1, SARP2
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.
Cellular Location	Secreted. Note=Cell membrane or extracellular matrix-associated. Released by heparin-binding
Tissue Location	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, leiomyomal cells, myometrial cells and vascular smooth muscle cells. Expressed in foreskin fibroblasts and in keratinocytes

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