

Active Recombinant Rat Sfrp1 protein, His-tagged

Cat. No. Sfrp1-366R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Rat Sfrp1 protein(Q9R168)(8-153 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Rat
Source	E.coli
ProteinLength	8-153 aa
Form	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Bio-activity	Secreted frizzled-related protein 1, also known as SFRP1 is a member of the SFRP family that contains a cysteine-rich domain homologous to the putative Wnt-binding site of Frizzled proteins. It acts as a biphasic modulator of Wnt signaling, counteracting Wnt-induced effects at high concentrations and promoting them at lower concentrations. As a tumor suppressor, SFRP1 expression markedly inhibited tumor cell growth in culture, soft agar and xenografts in athymic nude mice. Besides, Wingless Type MMTV Integration Site Family, Member 2 (WNT2) has been identified as an interactor of SFRP1, thus a binding ELISA assay was conducted to detect the interaction of recombinant rat SFRP1 and recombinant rat WNT2. Briefly, SFRP1 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100μL were then transferred to WNT2-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-SFRP1 pAb, then

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aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50µ stop solution to the wells and read at 450nm immediately. The binding activity of SFRP1 and WNT2 was shown, and this effect was in a dose dependent manner.

Molecular Mass	17.9kDa
Endotoxin	<1.0EU per 1µg (determined by the LAL method).
Purity	> 95%
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	<i>Sfrp1</i> secreted frizzled-related protein 1 [<i>Rattus norvegicus</i>]
Official Symbol	<i>Sfrp1</i>
Synonyms	SFRP1; secreted frizzled-related protein 1; sFRP-1;
Gene ID	84402

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