

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human sFRP-4 in direct ELISAs and Western blots. In direct ELISAs, approximately 50% cross-reactivity with recombinant mouse (rm) sFRP-4 is observed, and less than 5% cross-reactivity with recombinant human (rh) sFRP-3, rh sFRP-1, and rms
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human sFRP-4 Ala22-Val346 Accession # AAC04617
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

sFRP-4, also known as DDC-4, Frp, FRPHE and Secreted Frizzled Related Protein 4, is a 50-55 kDa glycoprotein expressed in brain, kidney, lung, ovary, prostate, mammary gland, and endometrium (1, 2). This protein shows complex functions with respect to cell survival: it is up-regulated with apoptosis during ovulation (3), regulates apoptosis in chondrocytes (4), and promotes apoptosis in mammary glands when expressed in transgenic mice (5). On the other hand, sFRP-4 can also act to enhance growth as it is up-regulated in endometrial and breast carcinomas (6, 7). Since it is not detected in other carcinomas such as the ovary, colon, and pancreas, this suggest that its role in cancer is likely to be tissue dependent (6). In addition sFRP-4 is characterized as a circulating phosphaturic factor expressed by tumors associated with osteomalacia that antagonizes renal Wnt signaling (7). Of all the secreted frizzled related proteins, sFRP-4 is most closely related to sFRP-3 (1). Mouse and human sFRP-4 proteins share 92% aa identity.

PRODUCT SPECIFIC NOTICES

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