

Human sFRP-2 Alexa Fluor® 532-conjugated Antibody

Monoclonal Mouse IgG_{2B} Clone # 755644

Catalog Number: FAB6838X

100 µg

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human sFRP-2 in direct ELISAs and Western blots. In direct ELISAs, 100% cross-reactivity with recombinant mouse (rm) sFRP-2 is observed and no cross-reactivity with recombinant human (rh) sFRP-1 or rhsFRP-5 is observed. In Western blots, no cros
Source	Monoclonal Mouse IgG _{2B} Clone # 755644
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human sFRP-2 Leu25-Cys295 Accession # Q96HF1
Conjugate	Alexa Fluor 532 Excitation Wavelength: 534 nm Emission Wavelength: 553 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 Shee (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

Secreted Frizzled Related Protein-2 (sFRP-2) belongs to a family of Wnt-binding proteins with homology to the ligand-binding domain of the Frizzled transmembrane Wnt receptors. The sFRP proteins are approximately 30-35 kDa in size and contain an N-terminal Frizzled-like domain with 10 conserved cysteines and a Netrin-like C-terminal domain (1, 2). Mature human sFRP-2, also known as SARP-1, SDF-5, and FRP-2, shares 99% as sequence identity with mouse and rat sFRP-2 (3). sFRP-2 is widely expressed during embryogenesis and in the adult in tissues including the eye, heart, lung, colon, intestine, smooth muscle, pancreas, prostate, testis, kidney, brain, teeth and joints, craniofacial mesenchyme, and preadipocytes (3-6). Depending on the context, sFRP-2 can exert either positive or negative effects on Wnt signaling (7-9). It also inhibits BMP-induced effects (8, 10). sFRP-2 can be incorporated into the extracellular matrix through interactions with Fibronectin and Integrin α5β1 (11). sFRP-2 plays a variety of roles during tissue morphogenesis including inhibition of the planar cell polarity pathway and myoblast and osteoblast differentiation (8, 10, 12, 13). sFRP-2 is also expressed in multiple myeloma and glioma in which it promotes tumorigenicity (10, 14). At physiological concentrations sFRP-2 enhances BMP-1 mediated proteolysis of Pro-Collagen I, whereas at higher concentrations it inhibits BMP-1 activity (15, 16). This difference is significant considering that sFRP-2 is up-regulated in fibrotic areas of the heart following myocardial infarction (15, 16). Elevated levels of sFRP-2 then promote the recovery of cardiac function by reducing collagen deposition, remodeling, and calcification and by promoting the engraftment of mesenchymal stem cells into the heart (8, 15).

PRODUCT SPECIFIC NOTICES

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