Mouse sFRP-2 Alexa Fluor® 488-conjugated Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF1169G
100 µg

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse sFRP-2 in direct ELISAs and Western blots. In these formats, less than 1% cross-reactivity with recombinant human SARP2 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse sFRP-2 (R&D Systems, Catalog # 1169-FR) Leu25-Cys295 Accession # AAB70795
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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

Secreted Frizzled Related Proteins (sFRPs) are a family of vertebrate proteins which contain homology to the ligand-binding domain of the Frizzled family of transmembrane receptors. The sFRPs are approximately 30 - 35 kDa in size and are comprised of 3 domains: a signal sequence; a cysteine-rich domain (CRD) of about 110 amino acids (aa) with a high degree of similarity to the Frizzled proteins, including 10 conserved cysteines, and a 175 aa conserved hydrophilic carboxy terminal region. Because sFRPs contain a CRD very similar to the region responsible for binding Wnt ligands in Frizzleds, sFRPS are thought to act as soluble antagonists of Wnt signals.

sFRP-2, also known as SARP-1, SDF-5, and FRP-2, is expressed during mouse embryogenesis in the eye, brain, neural tube, craniofacial mesenchyme, joints, testis, pancreas, kidney and regions of smooth muscle cell development. Expression in the adult animal has been detected in the eye, heart, lung, along with preadipose and adipose tissues in mice and humans. Mouse and human sFRP-2 proteins share 98% aa identity, and related proteins have also been identified in chick, rabbit, and frog. A variety of activities have been reported for sFRP-2 including an increased resistance to apoptosis, antagonism of Xwnt -8 signaling in *Xenopus*, regulation of Wnt-4 signaling (with sFRP-1) in renal organogenesis, and inhibition of the migration of glioma cells (1 - 7).

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.

Bio-Techne®
Global | bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL: 1.612.379.2956
USA | TEL: 800.343.7475 Canada | TEL: 855.668.8722 Europe | Middle East | Africa TEL: +44.0.1235.529449
China | info.cn@bio-techne.com TEL: 400.821.3475