

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human SMOC-2 in direct ELISAs and Western blots. In Western blots, approximately 15% cross-reactivity with recombinant human (rh) SMOC-1 and no cross-reactivity with recombinant mouse SMOC-2 is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 667713
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human SMOC-2 Gln22-Gly446 Accession # Q9H3U7
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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.

Immunohistochemistry 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

SMOC-2 (secreted modular calcium-binding protein 2; also SMAP2) is a 55 kDa glycoprotein member of the SPARC family of matricellular proteins. It is widely expressed, perhaps by endothelium, and apparently participates in both growth factor signaling and ECM organization. Mature human SMOC-2 is 425 amino acids (aa) in length. It contains one Kazal-like domain (aa 40-84), two thyroglobulin type-1 segments (aa 87-153 and 213-281), and two EF-hand sequences (aa 347-382 and 384-419). There are three splice variants. One shows a 13 aa substitution for aa 442-446, another shows an 11 aa insertion after Thr170, and a third represents a combination of the above two variations. Over aa 22-446, human SMOC-2 shares 95% aa identity with mouse SMOC-2.

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.