

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 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 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

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