

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Stanniocalcin 1/STC-1 in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human Stanniocalcin 2 or recombinant mouse Stanniocalcin 1 is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 380715
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Stanniocalcin 1/STC-1 Thr18-Ala247 Accession # P52823
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 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

Stanniocalcin-1 (STC-1) is a secreted 35 kDa disulfide-linked homodimer that is related to a calcium-regulating hormone in fish. Mature human Stanniocalcin-1 is 230 aa in length, and contains five intrachain disulfide bonds plus one interchain disulfide bond. Circulating Stanniocalcin-1 is both glycosylated and phosphorylated. Mature human Stanniocalcin-1 is 98%, 97%, 95% and 97% aa identical to mature canine, mouse, bovine and rat Stanniocalcin-1, respectively. Stanniocalcin-1 promotes phosphorus absorption and blocks chemokine-induced chemotaxis.

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