

#### DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | 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.                                                    |
| <b>Source</b>             | Monoclonal Mouse IgG <sub>2B</sub> Clone # 380715                                                                                                                                                                                                                           |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | Mouse myeloma cell line NS0-derived recombinant human Stanniocalcin 1/STC-1<br>Thr18-Ala247<br>Accession # P52823                                                                                                                                                           |
| <b>Conjugate</b>          | Alexa Fluor 647<br>Excitation Wavelength: 650 nm<br>Emission Wavelength: 668 nm                                                                                                                                                                                             |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*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.

#### PRODUCT SPECIFIC NOTICES

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