Human Stanniocalcin 1/STC-1 Antibody
Monoclonal Mouse IgG$_{2B}$ Clone # 380715
Catalog Number: MAB2958

**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

**Formulation** Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.

*Small pack size (SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

**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.

<table>
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<tr>
<th>Recommended Concentration</th>
<th>Sample</th>
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<tr>
<td>Western Blot</td>
<td>0.05 μg/mL</td>
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**DATA**

Detection of Human Stanniocalcin 1/STC-1 by Western Blot.
Western blot shows lysates of human heart tissue, human kidney tissue, HT1080 human fibrosarcoma cell line, and HUVEC human umbilical vein endothelial cells. PVDF membrane was probed with 0.05 μg/mL of Mouse Anti-Human Stanniocalcin 1/STC-1 Monoclonal Antibody (Catalog # MAB2958) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for Stanniocalcin 1/STC-1 at approximately 36 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

**PREPARATION AND STORAGE**

**Reconstitution** Reconstitute at 0.5 mg/mL in sterile PBS.

**Shipping** The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

*Small pack size (SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C.

**Stability & Storage** Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

**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.