# STC-2 monoclonal antibody, clone 1F5

Catalog # MAB0033-M09 Size 100 ug

## Specification

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|---|---|
| **Product Description** | Mouse monoclonal antibody raised against stanniocalcin-2. |
| **Immunogen** | Recombinant Flag fusion protein corresponding to amino acids 25-302 of human STC2. |
| **Host** | Mouse |
| **Reactivity** | Human |
| **Form** | Liquid |
| **Isotype** | IgG2a, kappa |
| **Quality Control Testing** | Antibody Reactive Against Recombinant Protein on ELISA. |
| **Recommend Usage** | The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In PBS, pH 7.4 |
| **Storage Instruction** | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing. |

## Applications

- ELISA

## Gene Info — STC2

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|---|---|
| **Entrez GeneID** | 8614 |
| **Protein Accession#** | O76061 |
| **Gene Name** | STC2 |
| **Gene Alias** | STC-2, STCRP |

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|---|---|
| **Gene Description** | stanniocalcin 2 |
| **Omim ID** | 603665 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | This gene encodes a secreted, homodimeric glycoprotein that is expressed in a wide variety of tissues and may have autocrine or paracrine functions. The encoded protein has 10 of its 15 cysteine residues conserved among stanniocalcin family members and is phosphorylated by casein kinase 2 exclusively on its serine residues. Its C-terminus contains a cluster of histidine residues which may interact with metal ions. The protein may play a role in the regulation of renal and intestinal calcium and phosphate transport, cell metabolism, or cellular calcium/phosphate homeostasis. Constitutive overexpression of human stanniocalcin 2 in mice resulted in pre- and postnatal growth restriction, reduced bone and skeletal muscle growth, and organomegaly. Expression of this gene is induced by estrogen and altered in some breast cancers. [provided by RefSeq |
| **Other Designations** | STC-related protein\|stanniocalcin-related protein |

## Disease

- Amyotrophic lateral sclerosis
- Anoxia
- Genetic Predisposition to Disease
- Hyperparathyroidism

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