# STIM1 Antibody – Mouse Monoclonal

## PRODUCT OVERVIEW

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| **Product Name** | STIM1, Monoclonal Antibody |
| **Full Product Name** | STIM1 (Stromal Interaction Molecule 1, D11S4896E, GOK) (MaxLight 750) |
| **Product Gene Name** | anti-STIM1 antibody |
| **Product Synonym Names** | Stromal Interaction Molecule 1; D11S4896E; GOK |
| **Clonality** | Monoclonal |
| **Isotype** | IgG2a, lambda |
| **Clone Number** | 1B12 |
| **Host** | Mouse |
| **Form/Format** | Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750. |
| **Purity/Purification** | Purified |
| **Specificity** | Recognizes STIM1. |
| **Preparation and Storage** | Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo |
| **Immunogen** | STIM1 (AAH21300, 24aa-685aa) full-length recombinant protein with GST tag. MW of the GST tag alone is 26kD. |
| **Immunogen Sequence** | SHSHSEKATGTSSGANSEESTAAEFCRIDKPLCHSEDEKLSFEAVRNIHKLMDDDANGDVDVEESDEFLREDLNYHDPTVKHSTFHGEDKLISVEDLWKA |
| **Conjugate** | MaxLight750 |
| **Product Categories/Family for anti-STIM1 antibody** | Antibodies; Proteins |
| **Applications Tested/Suitable for anti-STIM1 antibody** | Western Blot (WB) |
| **Application Notes for anti-STIM1 antibody** | Applications are based on unconjugated antibody. |
| **Related Product Information for anti-STIM1 antibody** | This gene encodes a type 1 transmembrane protein that mediates Ca2+ influx after depletion of intracellular Ca2+ stores by gating of store-operated C |
| **Other Notes** | Small volumes of anti-STIM1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necess |
| **Searchable Terms for STIM1 purchase** | MBS6240791 is an antibody targeting STIM1. Also known as STIM1 (Stromal Interaction Molecule 1, D11S4896E, GOK) (MaxLight 750). Host: Mouse. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for STIM1. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 20987365 |
| **NCBI GeneID** | 6786 |
| **NCBI Accession #** | AAH21300 |
| **UniProt Related Accession #** | Q13586 |
| **NCBI Official Full Name** | Stromal interaction molecule 1 |
| **NCBI Official Synonym Full Names** | stromal interaction molecule 1 |
| **NCBI Official Symbol** | STIM1 |
| **NCBI Official Synonym Symbols** | GOK; TAM; TAM1; IMD10; STRMK; D11S4896E |
| **Protein Family** | Stromal interaction molecule |
| **NCBI Protein Information** | stromal interaction molecule 1 |
| **NCBI Summary for STIM1** | This gene encodes a type 1 transmembrane protein that mediates Ca2+ influx after depletion of intracellular Ca2+ stores by gating of store-operated Ca2+ influx channels (SOCs). It is one of several genes located in the imprinted gene domain of 11p15.5, an important tumor-suppressor gene region. Alterations in this region have been associated with the Beckwith-Wiedemann syndrome, Wilms tumor, rhabdomyosarcoma, adrenocrotical carcinoma, and lung, ovarian, and breast cancer. This gene may play a role in malignancies and disease that involve this region, as well as early hematopoiesis, by mediating attachment to stromal cells. Mutations in this gene are associated with fatal classic Kaposi sarcoma, immunodeficiency due to defects in store-operated calcium entry (SOCE) in fibroblasts, ectodermal dysplasia and tubular aggregate myopathy. This gene is oriented in a head-to-tail configuration with the ribonucleotide reductase 1 gene (RRM1), with the 3' end of this gene situated 1.6 kb from the 5' end of the RRM1 gene. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, May 2013] |
| **Research Articles on STIM1** | **1.** Both STIM1 and STIM2 are necessary for cancer cell proliferation, but STIM1 is the dominant endoplasmic reticulum Ca2+ sensor involved in cancer cell migration. |
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