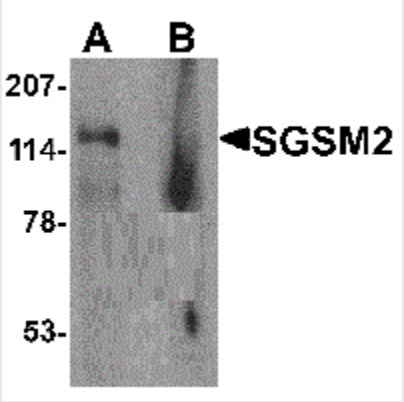
# SGSM2 Blocking Peptide

## PRODUCT OVERVIEW

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| **Product Name** | SGSM2, Blocking Peptide |
| **Full Product Name** | SGSM2 Peptide |
| **Product Gene Name** | SGSM2 blocking peptide |
| **Product Synonym Names** | RUTBC1; KIAA0397; RUTBC1; Small G protein signaling modulator 2; RUN and TBC1 domain-containing protein 1; small G protein signaling modulator 2 |
| **Form/Format** | Liquid |
| **Concentration** | 200 ug/mL (lot specific) |
| **Preparation and Storage** | Store SGSM2 peptide at -20 degree C, stable for one year. |
| **Antibody/Peptide Pairs** | SGSM2 peptide (MBS152368) is used for blocking the activity of SGSM2 antibody (MBS151080) |
| **Molecular Weight** | 110,858 Da |
| **OMIM** | 611418 |
| **Species** | Human |
| **Buffer** | PBS pH 7.2 (10 mM NaH2PO4, 10 mM Na2HPO4, 130 mM NaCl) containing 0.1% bovine serum albumin and 0.02% sodium azide |
| **Location** | 18 amino acid peptide near the center of human SGSM2. |
| **Applications Tested/Suitable for SGSM2 blocking peptide** | Blocking (BL) |
| **Application Notes for SGSM2 blocking peptide** | SGSM2 peptide is used for blocking the activity of SGSM2 antibody. |
| **Related Product Information for SGSM2 blocking peptide** | MBS152368 is a blocking peptide targeting SGSM2. Also known as SGSM2 Peptide. |
| **Other Notes** | Small volumes of SGSM2 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |




**Western Blot (WB) of SGSM2 blocking peptide**
Western blot analysis of SGSM2 in human cerebellum tissue lysate with SGSM2 antibody at 1 ?g/ml in (A) the absence and (B) the presence of blocking peptide

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SGSM2. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 148612795 |
| **NCBI GeneID** | 9905 |
| **NCBI Accession #** | NP_055668 |
| **UniProt Primary Accession #** | O43147 |
| **UniProt Secondary Accession #** | Q49AC2; Q6ZUY2; Q8IXU4; A5LGW2; B4DH69 |
| **UniProt Related Accession #** | O43147 |
| **GenBank Nucleotide #** | NM_014853.2 |
| **NCBI Official Full Name** | small G protein signaling modulator 2 isoform 1 |
| **NCBI Official Synonym Full Names** | small G protein signaling modulator 2 |
| **NCBI Official Symbol** | SGSM2 |
| **NCBI Official Synonym Symbols** | RUTBC1 |
| **UniProt Protein Name** | Small G protein signaling modulator 2 |
| **UniProt Synonym Protein Names** | RUN and TBC1 domain-containing protein 1 |
| **Protein Family** | Small G protein signaling modulator |
| **UniProt Gene Name** | SGSM2 |
| **UniProt Synonym Gene Names** | KIAA0397; RUTBC1 |
| **UniProt Entry Name** | SGSM2_HUMAN |
| **NCBI Protein Information** | small G protein signaling modulator 2; RUN and TBC1 domain containing 1; RUN and TBC1 domain-containing protein 1; small G protein signaling modulator 2 protein |
| **UniProt Comments for SGSM2** | SGSM2: Belongs to the RUTBC family. 4 isoforms of the human protein are produced by alternative splicing.<br><br>Protein type: G protein regulator, misc.<br><br>Chromosomal Location of Human Ortholog: 17p13.3<br><br>Molecular Function: Rab GTPase binding |
| **Research Articles on SGSM2** | **1.** RUTBC1 is a Tre2/Bub2/Cdc16 domain-containing protein that binds to Rab9A-GTP both in vitro and in cultured cells, but is not a GTPase-activating protein for Rab9A. |
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