SENP2 Antibody (C-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	SENP2, Blocking Peptide
Full Product Name	SENP2 Antibody (C-term) Blocking Peptide
Product Gene Name	SENP2 blocking peptide
Product Synonym Gene Name	KIAA1331
Product Synonym Names	Sentrin-specific protease 2; Axam2; SMT3-specific isopeptidase 2; Smt3ip2; Sentrin/SUMO-specific protease SENP2; SENP2; KIAA1331
Form/Format	The synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml deionized water for a final concentration of 1 mg/ml.
Specificity	The synthetic peptide sequence used to generate the antibody was selected from the C-term region of human SENP2. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	SENP2 peptide (MBS9219045) is used for blocking the activity of SENP2 antibody (MBS9202427)
Molecular Weight	66,358 Da
OMIM	608261
Cellular Location	Nucleus, nuclear pore complex. Nucleus membrane; Peripheral membrane protein; Nucleoplasmic side Cytoplasm. Note: Shuttles between cytoplasm and nucleus
Related Product Information for SENP2 blocking peptide	Protease that catalyzes two essential functions in the SUMO pathway: processing of full-length SUMO1, SUMO2 and SUMO3 to their mature forms and deconjugation of SUMO1, SUMO2 and SUMO3 from targeted proteins. May down-regulate CTNNB1 levels and thereby modulate the Wnt pathway. Deconjugates SUMO2 from MTA1.
Other Notes	Small volumes of SENP2 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.
Searchable Terms for SENP2 purchase	MBS9219045 is a blocking peptide targeting SENP2. Also known as SENP2 Antibody (C-term) Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SENP2. It may not necessarily be applicable to this product.

NCBI GI #	143811458
NCBI GeneID	59343
NCBI Accession #	Q9HC62.3
UniProt Primary Accession #	Q9HC62
UniProt Secondary Accession #	Q8IW97; Q96SR2; Q9P2L5; B4DQ42
UniProt Related Accession #	Q9HC62
NCBI Official Full Name	Sentrin-specific protease 2
NCBI Official Synonym Full Names	SUMO1/sentrin/SMT3 specific peptidase 2
NCBI Official Symbol	SENP2

NCBI Official Synonym Symbols	AXAM2; SMT3IP2
UniProt Protein Name	Sentrin-specific protease 2
UniProt Synonym Protein Names	Axam2; SMT3-specific isopeptidase 2; Smt3ip2; Sentrin/SUMO-specific protease SENP2
Protein Family	Sentrin-specific protease
UniProt Gene Name	SENP2
UniProt Synonym Gene Names	KIAA1331; Smt3ip2
UniProt Entry Name	SENP2_HUMAN
NCBI Protein Information	sentrin-specific protease 2
NCBI Summary for SENP2	SUMO1 (UBL1; MIM 601912) is a small ubiquitin-like protein that can be covalently conjugated to other proteins. SENP2 is one of a group of enzymes that process newly synthesized SUMO1 into the conjugatable form and catalyze the deconjugation of SUMO1-containing species.[supplied by OMIM, Apr 2004]
UniProt Comments for SENP2	SENP2: Protease that catalyzes two essential functions in the SUMO pathway: processing of full-length SUMO1, SUMO2 and SUMO3 to their mature forms and deconjugation of SUMO1, SUMO2 and SUMO3 from targeted proteins. May down-regulate CTNNB1 levels and thereby modulate the Wnt pathway. Belongs to the peptidase C48 family. Protein type: Protease; EC 3.4.22.68 Chromosomal Location of Human Ortholog: 3q27.2 Cellular Component: nuclear pore; nucleoplasm; PML body Molecular Function: endopeptidase activity; protein binding; SUMO-specific protease activity Biological Process: fat cell differentiation; negative regulation of protein ubiquitination; positive regulation of protein ubiquitination; protein destabilization; protein desumoylation; protein sumoylation
Research Articles on SENP2	**1.** miR-181b targets SENP2 and positively regulated NF-kappaB activity. NF-kappaB activation by DNA damage in GBM cells confers resistance to radiation-induced death.
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