NSE4A Antibody (N-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	NSE4A (NSMCE4A), Blocking Peptide
Full Product Name	NSE4A Antibody (N-term) Blocking Peptide
Product Gene Name	NSMCE4A blocking peptide
Product Synonym Gene Name	C10orf86
Product Synonym Names	Non-structural maintenance of chromosomes element 4 homolog A; NS4EA; Non-SMC element 4 homolog A; NSMCE4A; C10orf86
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 1 mg/ml.
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	NSE4A peptide (MBS9228474) is used for blocking the activity of NSE4A antibody (MBS9203931)
Molecular Weight	35,859 Da
OMIM	612987
Cellular Location	Nucleus. Chromosome, telomere
Related Product Information for NSMCE4A blocking peptide	Component of the SMC5-SMC6 complex, a complex involved in DNA double-strand breaks by homologous recombination. The complex may promote sister chromatid homologous recombination by recruiting the SMC1-SMC3 cohesin complex to double-strand breaks. The complex is required for telomere maintenance via recombination in ALT (alternative lengthening of telomeres) cell lines and mediates sumoylation of shelterin complex (telosome) components which is proposed to lead to shelterin complex disassembly in ALT- associated PML bodies (APBs). Is involved in positive regulation of response to DNA damage stimulus.
Other Notes	Small volumes of NSMCE4A 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 NSMCE4A purchase	MBS9228474 is a blocking peptide targeting NSMCE4A. Also known as NSE4A Antibody (N-term) Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NSMCE4A. It may not necessarily be applicable to this product.

NCBI GI #	68565328
NCBI GeneID	54780
NCBI Accession #	Q9NXX6.2
UniProt Primary Accession #	Q9NXX6
UniProt Secondary Accession #	Q5SQQ5; Q6P673; Q8WY66; Q9BS90
UniProt Related Accession #	Q9NXX6
NCBI Official Full Name	Non-structural maintenance of chromosomes element 4 homolog A
NCBI Official Synonym Full Names	NSE4 homolog A, SMC5-SMC6 complex component
NCBI Official Symbol	NSMCE4A

NCBI Official Synonym Symbols	NS4EA; NSE4A; C10orf86
UniProt Protein Name	Non-structural maintenance of chromosomes element 4 homolog A
UniProt Gene Name	NSMCE4A
UniProt Synonym Gene Names	C10orf86; NS4EA; Non-SMC element 4 homolog A
UniProt Entry Name	NSE4A_HUMAN
NCBI Protein Information	non-structural maintenance of chromosomes element 4 homolog A
UniProt Comments for NSMCE4A	NSMCE4A: Component of the SMC5-SMC6 complex, a complex involved in DNA double-strand breaks by homologous recombination. The complex may promote sister chromatid homologous recombination by recruiting the SMC1-SMC3 cohesin complex to double-strand breaks. The complex is required for telomere maintenance via recombination in ALT (alternative lengthening of telomeres) cell lines and mediates sumoylation of shelterin complex (telosome) components which is proposed to lead to shelterin complex disassembly in ALT- associated PML bodies (APBs). Is involved in positive regulation of response to DNA damage stimulus. Belongs to the NSE4 family. 2 isoforms of the human protein are produced by alternative splicing. Chromosomal Location of Human Ortholog: 10q26.13 Cellular Component: nucleoplasm Molecular Function: protein binding Biological Process: protein sumoylation
Research Articles on NSMCE4A	**1.** TRIM31 directly binds to NSE4, suggesting the existence of a TRIM31-MAGEA1-NSE4 complex reminiscent of the NSE1-NSE3-NSE4 trimer.
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