NCL Antibody (Center E443) Blocking Peptide

PRODUCT OVERVIEW

Product Name	NCL, Blocking Peptide
Full Product Name	NCL Antibody (Center E443) Blocking peptide
Product Gene Name	NCL blocking peptide
Product Synonym Names	Nucleolin; Protein C23; NCL
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	NCL peptide (MBS9218556) is used for blocking the activity of NCL antibody (MBS9201499)
Molecular Weight	76,614 Da
OMIM	164035
Cellular Location	Nucleus, nucleolus. Cytoplasm. Note: Localized in cytoplasmic mRNP granules containing untranslated mRNAs
Related Product Information for NCL blocking peptide	Nucleolin is the major nucleolar protein of growing eukaryotic cells. It is found associated with intranucleolar chromatin and pre-ribosomal particles. It induces chromatin decondensation by binding to histone H1. It is thought to play a role in pre-rRNA transcription and ribosome assembly. May play a role in the process of transcriptional elongation. Binds RNA oligonucleotides with 5'-UUAGGG-3' repeats more tightly than the telomeric single-stranded DNA 5'-TTAGGG-3' repeats.
Other Notes	Small volumes of NCL 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 NCL purchase	MBS9218556 is a blocking peptide targeting NCL. Also known as NCL Antibody (Center E443) Blocking peptide.

ADDITIONAL DETAILS

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

NCBI GI #	90110781
NCBI GeneID	4691
NCBI Accession #	P19338.3
UniProt Primary Accession #	P19338
UniProt Secondary Accession #	Q53SK1; Q8NB06; Q9UCF0; Q9UDG1
UniProt Related Accession #	P19338
NCBI Official Full Name	Nucleolin
NCBI Official Synonym Full Names	nucleolin
NCBI Official Symbol	NCL
NCBI Official Synonym Symbols	C23
UniProt Protein Name	Nucleolin
UniProt Synonym Protein Names	Protein C23

Protein Family	Nucleolin
UniProt Gene Name	NCL
UniProt Entry Name	NUCL_HUMAN
NCBI Protein Information	nucleolin
NCBI Summary for NCL	Nucleolin (NCL), a eukaryotic nucleolar phosphoprotein, is involved in the synthesis and maturation of ribosomes. It is located mainly in dense fibrillar regions of the nucleolus. Human NCL gene consists of 14 exons with 13 introns and spans approximately 11kb. The intron 11 of the NCL gene encodes a small nucleolar RNA, termed U20. [provided by RefSeq, Jul 2008]
UniProt Comments for NCL	NCL: the major nucleolar protein of growing eukaryotic cells. It is found associated with intranucleolar chromatin and preribosomal particles. It induces chromatin decondensation by binding to histone H1. It is thought to play a role in pre-RNA transcription and ribosome assembly. Protein type: Nucleolus; DNA-binding; Nuclear receptor co-regulator; Helicase; RNA-binding Chromosomal Location of Human Ortholog: 2q37.1 Cellular Component: cell cortex; membrane; nucleolus; nucleoplasm; nucleus; ribonucleoprotein complex Molecular Function: identical protein binding; protein binding; protein C-terminus binding; RNA binding; telomeric DNA binding Biological Process: angiogenesis
Research Articles on NCL	**1.** These results suggested a clear link between nucleolin expression (including cell membrane nucleolin) and the stem cell-like phenotype in breast cancer, namely in the triple negative molecular subtype.
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