CEP63 Peptide - Middle Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	CEP63, Blocking Peptide
Full Product Name	CEP63 Peptide - middle region
Product Gene Name	CEP63 blocking peptide
Product Synonym Gene Name	SCKL6
Sequence	Synthetic peptide located within the following region: MTMEYKQELK KLHEELCILK RSYEKLQKKQ MREFRGNTKN HREDRSEIER
Species Reactivity	Human
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	CEP63 peptide (MBS3246672) is used for blocking the activity of CEP63 antibody (MBS3221955)
Molecular Weight	59 kDa
OMIM	614724
Product Categories/Family for CEP63 blocking peptide	Peptide
Related Product Information for CEP63 blocking peptide	This is a synthetic peptide designed for use in combination with anti- CEP63 Antibody, made Target Description: This gene encodes a protein with six coiled-coil domains. The protein is localized to the centrosome, a non-membraneous organelle that functions as the major microtubule-organizing center in animal cells. Several alternatively spliced transcript variants have been found, but their biological validity has not been determined.
Other Notes	Small volumes of CEP63 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 CEP63 purchase	MBS3246672 is a blocking peptide targeting CEP63. Also known as CEP63 Peptide - middle region. Reactive in Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CEP63. It may not necessarily be applicable to this product.

NCBI GI #	109255226
NCBI GeneID	80254
NCBI Accession #	NP_001035842.1
UniProt Primary Accession #	Q96MT8
UniProt Related Accession #	Q96MT8
GenBank Nucleotide #	NM_001042383.1
NCBI Official Full Name	centrosomal protein of 63 kDa isoform c
NCBI Official Synonym Full Names	centrosomal protein 63

NCBI Official Symbol	CEP63
NCBI Official Synonym Symbols	SCKL6
UniProt Protein Name	Centrosomal protein of 63 kDa
Protein Family	Centrosomal protein
UniProt Gene Name	CEP63
UniProt Synonym Gene Names	Cep63
UniProt Entry Name	CEP63_HUMAN
NCBI Protein Information	centrosomal protein of 63 kDa
NCBI Summary for CEP63	This gene encodes a protein with six coiled-coil domains. The protein is localized to the centrosome, a non-membraneous organelle that functions as the major microtubule-organizing center in animal cells. Several alternatively spliced transcript variants have been found, but their biological validity has not been determined. [provided by RefSeq, Jul 2008]
UniProt Comments for CEP63	Function: Required for normal spindle assembly. Maintains centrosome numbers through centrosomal recruitment of CEP152. Also recruits CDK1 to centrosomes. Plays a role in DNA damage response. Following DNA damage, such as double-strand breaks (DSBs), is removed from centrosomes; this leads to the inactivation of spindle assembly and delay in mitotic progression By similarity. Ref.5 Ref.6 Subunit structure: Interacts with CEP152 and CDK1; these interactions recruit both ligands to centrosomes. May also interact with CDK2. Ref.5 Ref.6 Subcellular location: Cytoplasm › cytoskeleton › microtubule organizing center › centrosome. Note: Colocalizes with CEP152 in a discrete ring around the proximal end of the parental centriole. At this site, a cohesive structure is predicted to engage parental centrioles and procentrioles. Ref.4 Ref.5 Ref.6 Involvement in disease: Seckel syndrome 6 (SCKL6) [MIM:614728]: A rare autosomal recessive disorder characterized by proportionate dwarfism of prenatal onset associated with low birth weight, growth retardation, severe microcephaly with a bird-headed like appearance, and mental retardation.Note: The disease is caused by mutations affecting the gene represented in this entry. Ref.6 Sequence similarities: Belongs to the CEP63 family.
Research Articles on CEP63	**1.** CEP63 is particularly important for brain development and might control the proliferation and migration of cells when those two events need to be highly coordinated.
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