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NUP85 Blocking Peptide (N-Term)

Synthetic peptide
Catalog # BP22048a

Specification

NUP85 Blocking Peptide (N-Term) - Product Information

Primary Accession Q9BW27

NUP85 Blocking Peptide (N-Term) - Additional Information

Gene ID 79902

Other Names
Nuclear pore complex protein Nup85, 85 kDa nucleoporin, FROUNT, Nucleoporin Nup75, Nucleoporin Nup85, Pericentrin-1, NUP85, NUP75, PCNT1

Target/Specificity
The synthetic peptide sequence is selected from aa 183-195 of HUMAN NUP85

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

NUP85 Blocking Peptide (N-Term) - Protein Information

Name NUP85

Synonyms NUP75, PCNT1

Function
Essential component of the nuclear pore complex (NPC) that seems to be required for NPC assembly and maintenance (PubMed:12718872). As part of the NPC Nup107-160 subcomplex plays a role in RNA export and in tethering NUP96/Nup98 and NUP153 to the nucleus (PubMed:12718872). The Nup107-160 complex seems to be required for spindle assembly during mitosis (PubMed:16807356). NUP85 is required for membrane clustering of CCL2-activated CCR2 (PubMed:15995708). Seems to be involved in CCR2-mediated chemotaxis of monocytes and may link activated CCR2 to the phosphatidyl-inositol 3- kinase-Rac-lammellipodium protrusion cascade (PubMed:15995708). Involved in

nephrogenesis (PubMed:30179222).

Cellular Location
Nucleus, nuclear pore complex. Chromosome, centromere, kinetochore. Cytoplasm, cytoskeleton, spindle. Cytoplasm. Nucleus membrane. Note=During mitosis, localizes to the kinetochores and spindle poles (PubMed:12718872, PubMed:16807356). Upon CCl2 stimulation translocates from the cytoplasm to the membrane and colocalizes with CCR2 at the front of migrating cells (PubMed:15995708).

NUP85 Blocking Peptide (N-Term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

NUP85 Blocking Peptide (N-Term) - Images

NUP85 Blocking Peptide (N-Term) - Background

Essential component of the nuclear pore complex (NPC) that seems to be required for NPC assembly and maintenance. As part of the NPC Nup107-160 subcomplex plays a role in RNA export and in tethering NUP98/Nup98 and NUP153 to the nucleus. The Nup107-160 complex seems to be required for spindle assembly during mitosis. NUP85 is required for membrane clustering of CCL2-activated CCR2. Seems to be involved in CCR2-mediated chemotaxis of monocytes and may link activated CCR2 to the phosphatidyl- inositol 3-kinase-Rac-lammellipodium protrusion cascade.

NUP85 Blocking Peptide (N-Term) - References

Cronshaw J.M.,et al.J. Cell Biol. 158:915-927(2002).
Terashima Y.,et al.Nat. Immunol. 6:827-835(2005).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Bechtel S.,et al.BMC Genomics 8:399-399(2007).
Zody M.C.,et al.Nature 440:1045-1049(2006).