

**NCAPG Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP19113a****Specification**

---

**NCAPG Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [Q9BPX3](#)**NCAPG Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 64151**Other Names**

Condensin complex subunit 3, Chromosome-associated protein G, Condensin subunit CAP-G, hCAP-G, Melanoma antigen NY-MEL-3, Non-SMC condensin I complex subunit G, XCAP-G homolog, NCAPG, CAPG, NYMEL3

**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.

**NCAPG Antibody (N-term) Blocking Peptide - Protein Information****Name** NCAPG**Synonyms** CAPG, NYMEL3**Function**

Regulatory subunit of the condensin complex, a complex required for conversion of interphase chromatin into mitotic-like condense chromosomes. The condensin complex probably introduces positive supercoils into relaxed DNA in the presence of type I topoisomerases and converts nicked DNA into positive knotted forms in the presence of type II topoisomerases.

**Cellular Location**

Nucleus. Cytoplasm. Chromosome. Note=In interphase cells, the majority of the condensin complex is found in the cytoplasm, while a minority of the complex is associated with chromatin. A subpopulation of the complex however remains associated with chromosome foci in interphase cells. During mitosis, most of the condensin complex is associated with the chromatin. At the onset of prophase, the regulatory subunits of the complex are phosphorylated by CDK1, leading to condensin's association with chromosome arms and to chromosome condensation. Dissociation from chromosomes is observed in late telophase

**Tissue Location**

Highly expressed in testis.

**NCAPG Antibody (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**NCAPG Antibody (N-term) Blocking Peptide - Images****NCAPG Antibody (N-term) Blocking Peptide - Background**

Regulatory subunit of the condensin complex, a complex required for conversion of interphase chromatin into mitotic-like condense chromosomes. The condensin complex probably introduces positive supercoils into relaxed DNA in the presence of type I topoisomerases and converts nicked DNA into positive knotted forms in the presence of type II topoisomerases.

**NCAPG Antibody (N-term) Blocking Peptide - References**

Okada, Y., et al. Hum. Mol. Genet. 19(11):2303-2312(2010)Zhao, J., et al. BMC Med. Genet. 11, 96 (2010) :Murphy, L.A., et al. Biochem. Biophys. Res. Commun. 377(3):1007-1011(2008)Gudbjartsson, D.F., et al. Nat. Genet. 40(5):609-615(2008)Sugiyama, N., et al. Mol. Cell Proteomics 6(6):1103-1109(2007)