

**STAG1 Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP16638c****Specification**

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**STAG1 Antibody (Center) Blocking Peptide - Product Information**Primary Accession [Q8WVM7](#)**STAG1 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 10274**Other Names**

Cohesin subunit SA-1, SCC3 homolog 1, Stromal antigen 1, STAG1, SA1

**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.

**STAG1 Antibody (Center) Blocking Peptide - Protein Information****Name** STAG1**Synonyms** SA1, SCC3 {ECO:0000303|PubMed:22628566}**Function**

Component of cohesin complex, a complex required for the cohesion of sister chromatids after DNA replication. The cohesin complex apparently forms a large proteinaceous ring within which sister chromatids can be trapped. At anaphase, the complex is cleaved and dissociates from chromatin, allowing sister chromatids to segregate. The cohesin complex may also play a role in spindle pole assembly during mitosis.

**Cellular Location**

Nucleus. Chromosome. Chromosome, centromere. Note=Associates with chromatin. Before prophase it is scattered along chromosome arms. During prophase, most of cohesin complexes dissociate from chromatin probably because of phosphorylation by PLK1, except at centromeres, where cohesin complexes remain. At anaphase, the RAD21 subunit of cohesin is cleaved, leading to the dissociation of the complex from chromosomes, allowing chromosome separation

**STAG1 Antibody (Center) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

#### **STAG1 Antibody (Center) Blocking Peptide - Images**

#### **STAG1 Antibody (Center) Blocking Peptide - Background**

This gene is a member of the SCC3 family and is expressed in the nucleus. It encodes a component of cohesin, a multisubunit protein complex that provides sister chromatid cohesion along the length of a chromosome from DNA replication through prophase and prometaphase, after which it is dissociated in preparation for segregation during anaphase.

#### **STAG1 Antibody (Center) Blocking Peptide - References**

Chasman, D.I., et al. PLoS Genet. 5 (11), E1000730 (2009) ; Canudas, S., et al. J. Cell Biol. 187(2):165-173(2009) Rubio, E.D., et al. Proc. Natl. Acad. Sci. U.S.A. 105(24):8309-8314(2008) Watrin, E., et al. Curr. Biol. 16(9):863-874(2006) Losada, A., et al. J. Cell. Sci. 118 (PT 10), 2133-2141 (2005) :