

### STAG2 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20917b

#### **Specification**

### STAG2 Antibody (N-term) - Product Information

Application WB,E
Primary Accession Q8N3U4
Reactivity Human
Host Rabbit
Clonality Polyclonal
Isotype Rabbit IgG
Calculated MW 141326

# STAG2 Antibody (N-term) - Additional Information

**Gene ID 10735** 

#### **Other Names**

Cohesin subunit SA-2, SCC3 homolog 2, Stromal antigen 2, STAG2, SA2

#### Target/Specificity

This STAG2 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 61-94 amino acids from the N-terminal region of human STAG2.

#### **Dilution**

WB~~1:1000

E~~Use at an assay dependent concentration.

#### **Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

## **Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

#### **Precautions**

STAG2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## STAG2 Antibody (N-term) - Protein Information

Name STAG2

**Synonyms SA2** 

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**

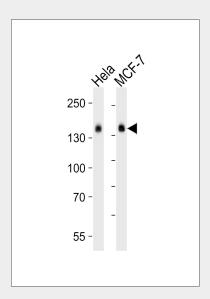
Nucleus. Chromosome. Chromosome, centromere. Note=Associates with chromatin. Before prophase it is scattered along chromosome arms. During prophase, most of cohesin complexes dissociate from chromatin probably because of phosphorylation by PLK1, except at centromeres, where cohesin complexes remain. At anaphase, the RAD21 subunit of cohesin is cleaved, leading to the dissociation of the complex from chromosomes, allowing chromosome separation. In germ cells, cohesin complex dissociates from chromatin at prophase I, and may be replaced by a meiosis-specific cohesin complex

#### STAG2 Antibody (N-term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

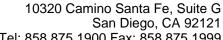
#### STAG2 Antibody (N-term) - Images

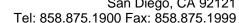


Western blot analysis of lysates from Hela, MCF-7 cell line (from left to right), using STAG2 Antibody (N-term)(Cat. #AP20917b). AP20917b was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 20ug per lane.

# STAG2 Antibody (N-term) - Background

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.

# STAG2 Antibody (N-term) - References

Bechtel S., et al. BMC Genomics 8:399-399(2007). Ross M.T., et al. Nature 434:325-337(2005). Mural R.J., et al. Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases. Carramolino L., et al. Gene 195:151-159(1997). Carramolino L., et al. Gene 206:283-286(1998).