

## **STAG1** Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP16638C

## **Specification**

## **STAG1** Antibody (Center) - Product Information

Application WB,E
Primary Accession Q8WVM7

Other Accession Q9D3E6, NP 005853.2

Reactivity
Predicted
Host
Clonality
Isotype
Calculated MW
Antigen Region
Human
Mouse
Rabbit
Polyclonal
Rabbit IgG
Calculated MW
144427
S40-568

# STAG1 Antibody (Center) - Additional Information

#### **Gene ID** 10274

#### **Other Names**

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

### Target/Specificity

This STAG1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 540-568 amino acids from the Central region of human STAG1.

## **Dilution**

WB~~1:1000

#### **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.

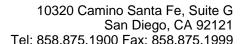
## **Precautions**

STAG1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

## STAG1 Antibody (Center) - 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**

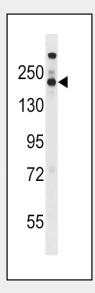
Nucleus. Chromosome. Chromosome, centromere. Note=Associates with chromatin. Before prophase it is scattered along chromosome arms. During prophase, most of cohesin complexes dissociate from chromatin probably because of phosphorylation by PLK1, except at centromeres, where cohesin complexes remain.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

## STAG1 Antibody (Center) - Protocols

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

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

## STAG1 Antibody (Center) - Images



STAG1 Antibody (Center) (Cat. #AP16638c) western blot analysis in WiDr cell line lysates (35ug/lane). This demonstrates the STAG1 antibody detected the STAG1 protein (arrow).

## STAG1 Antibody (Center) - 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) - 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) :