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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	**Human**
Predicted	**Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**144427**
Antigen Region	**540-568**

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.

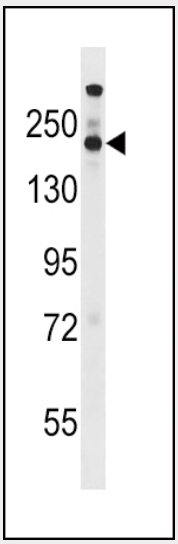
Cellular Location
Nucleus. Chromosome. Chromosome, centromere. Note=Associates with chromatin. Before prophase it is scattered along chromosome arms. During prophase, most of cohesin complexes dissociate from chromatin probably because of phosphorylation by PLK1, except at centromeres, where cohesin 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
- Immunohistochemistry
- 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) :