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Stromal antigen 2 / STAG2 Antibody (internal region)

Peptide-affinity purified goat antibody
Catalog # AF3057a

Specification

Stromal antigen 2 / STAG2 Antibody (internal region) - Product Information

Application	**WB, E**
Primary Accession	Q8N3U4
Other Accession	NP_001036214.1, NP_006594.3, 10735, 20843 (mouse), 313304 (rat)
Reactivity	**Human, Mouse, Rat**
Predicted	**Pig, Dog**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**0.5 mg/ml**
Isotype	**IgG**
Calculated MW	**141326**

Stromal antigen 2 / STAG2 Antibody (internal region) - Additional Information

Gene ID 10735

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

Dilution
WB~~1:1000
E~~N/A

Format
0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Stromal antigen 2 / STAG2 Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

Stromal antigen 2 / STAG2 Antibody (internal region) - 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

Stromal antigen 2 / STAG2 Antibody (internal region) - 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

Stromal antigen 2 / STAG2 Antibody (internal region) - Images

AF3057a (0.03 µg/ml) staining of K562 lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

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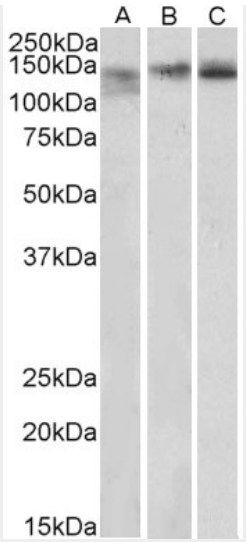

AF3057a (0.3 µg/ml) staining of Mouse Spleen (A), Mouse Thymus (B) and Rat Spleen (C) lysates (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Stromal antigen 2 / STAG2 Antibody (internal region) - Background

This antibody is expected to recognize both reported isoforms (NP_001036214.1; NP_006594.3). Reported variants NP_001036215.1 and NP_001036214.1 represent identical protein: Reported variants NP_001036216.1 and NP_006594.3 represent identical protein.

Stromal antigen 2 / STAG2 Antibody (internal region) - References

Dissociation of cohesin from chromosome arms and loss of arm cohesion during early mitosis depends on phosphorylation of SA2. Hauf S, Roitinger E, Koch B, Dittrich CM, Mechtler K, Peters JM, PLoS biology 2005 Mar 3 (3): e69. PMID: 15737063