

# Anti-STAG3 Antibody

Rabbit polyclonal antibody to STAG3

Catalog # AP60732

## Product Information

Application	WB, IF/IC, IHC
Primary Accession	<a href="#">Q9UJ98</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	139034

## Additional Information

Gene ID	10734
Other Names	Cohesin subunit SA-3; SCC3 homolog 3; Stromal antigen 3; Stromalin-3
Target/Specificity	Recognizes endogenous levels of STAG3 protein.
Dilution	WB~~WB (1/500 - 1/1000), IHC (1/100 - 1/200), IF/IC (1/100 - 1/500) IF/IC~~N/A IHC~~WB (1/500 - 1/1000), IHC (1/100 - 1/200), IF/IC (1/100 - 1/500)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

## Protein Information

Name	STAG3
Function	Meiosis specific component of cohesin complex. The cohesin complex is 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 meiosis-specific cohesin complex probably replaces mitosis specific cohesin complex when it dissociates from chromatin during prophase I.
Cellular Location	Nucleus {ECO:0000255 PROSITE-ProRule:PRU00750, ECO:0000269 PubMed:12034751}. Chromosome Chromosome, centromere. Note=Associates with chromatin. In prophase I stage of meiosis, it is found along the axial elements of synaptonemal complexes. In late-pachytene-diplotene, the bulk of protein dissociates from the chromosome arms probably because of phosphorylation by PLK1, except at

centromeres, where cohesin complexes remain. It however remains chromatin associated at the centromeres up to metaphase I. During anaphase I, it probably dissociates from centromeres, allowing chromosomes segregation

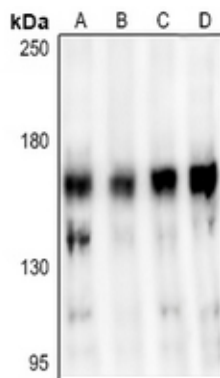
#### Tissue Location

Testis specific.

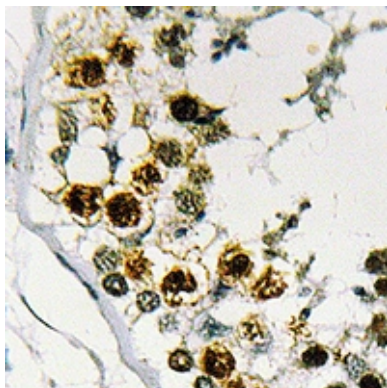
## Background

KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human STAG3. The exact sequence is proprietary.

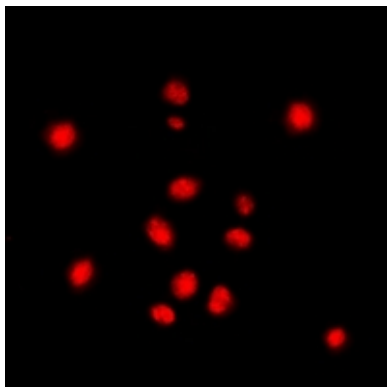
## Images



Western blot analysis of STAG3 expression in A2780 (A), SKOVCA3 (B), A549 (C), AML12 (D) whole cell lysates.



Immunohistochemical analysis of STAG3 staining in human testis formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of STAG3 staining in Jurkat cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

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