

For Research Use Only

# STAG1 Polyclonal antibody

Catalog Number: 14015-1-AP **2 Publications**



## Basic Information

<b>Catalog Number:</b> 14015-1-AP	<b>GenBank Accession Number:</b> BC064699	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 300 µg/ml by Nanodrop and 327 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 10274	<b>Recommended Dilutions:</b> WB 1:500-1:3000
<b>Source:</b> Rabbit	<b>Full Name:</b> stromal antigen 1	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 144 kDa	
<b>Immunogen Catalog Number:</b> AG5123	<b>Observed MW:</b> 155 kDa	

## Applications

<b>Tested Applications:</b> IF, WB, ELISA	<b>Positive Controls:</b> WB : HEK-293T cells, HeLa cells, human heart tissue, Raji cells, Jurkat cells, MCF-7 cells, NIH/3T3 cells
<b>Cited Applications:</b> WB	
<b>Species Specificity:</b> human, mouse, rat	
<b>Cited Species:</b> human, rat	

## Background Information

STAG1, also named as SCC3 homolog 1, is a 1258 amino acid protein, which belongs to the SCC3 family. STAG1 interacts directly with RAD21 in cohesin complex and localizes in nucleus. STAG1 is a Component of cohesin complex, which 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 cohesin complex may also play a role in spindle pole assembly during mitosis. The calculate molecular weight of STAG1 is 144 kDa, but modified STAG1 is about 145-150 kDa.

## Notable Publications

Author	Pubmed ID	Journal	Application
Gaoyang Chen	35361779	Bone Res	WB
Ena Oreskovic	35149558	Proc Natl Acad Sci U S A	WB

## Storage

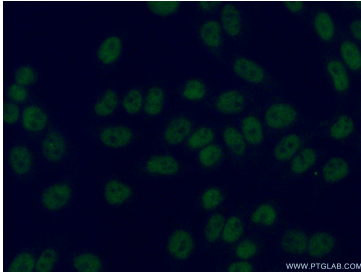
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

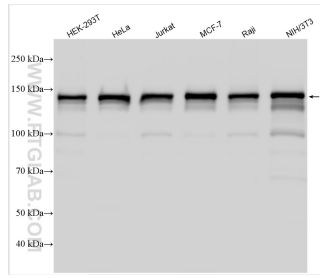
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## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using 14015-1-AP (STAG1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Various lysates were subjected to SDS PAGE followed by western blot with 14015-1-AP (STAG1 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.