

## SA1 - STAG1

CONTACT INFORMATION:	Monoclonal Antibodies Unit. Centro Nacional de Investigaciones Oncológicas
STATUS:	Validated
TYPE:	rat anti mouse
CLONE NAME:	SUSI 63B
PROTEIN:	Cohesin subunit SA-1
PROTEIN WEB:	<a href="http://www.uniprot.org/uniprot/Q9D3E6">http://www.uniprot.org/uniprot/Q9D3E6</a>
ANTIGEN USED:	mSA1-MBP recombinant protein (N terminal fragment 225 aa)
FUSION PARTNER:	NS1/Ag4-1 (NS1) cells
ISOTYPE:	IgG2a
SPECIES REACTIVITY:	mouse and human
PREPARATION AND STORAGE:	Aliquot and store at 4C. Do not freeze

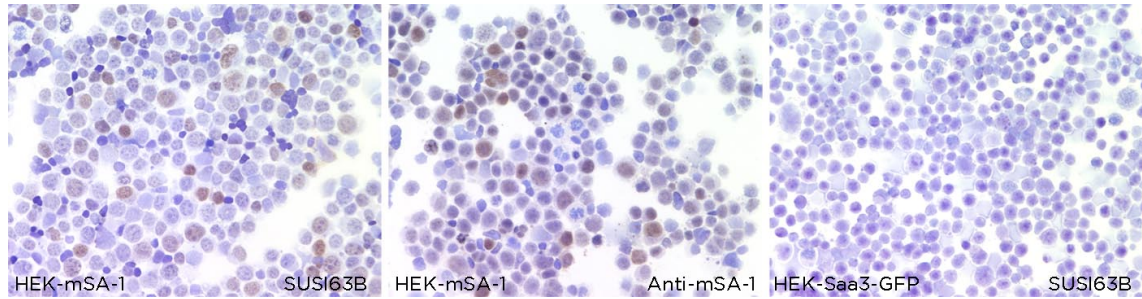
### DESCRIPTION

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.

### APPLICATIONS

IHC Techniques	Clone	Dilution	Antibody concentration	Antigen retrieval method	Visualization kit	Positive control	Negative control	Protein localization	Positivity in other species
<b>Frozen tissue and cytopspins</b>									
Recommended	SUSI6 3B	undiluted	supernatant					nuclear	
<b>Paraffin tissue</b>									
<b>Immunofluorescence</b>									

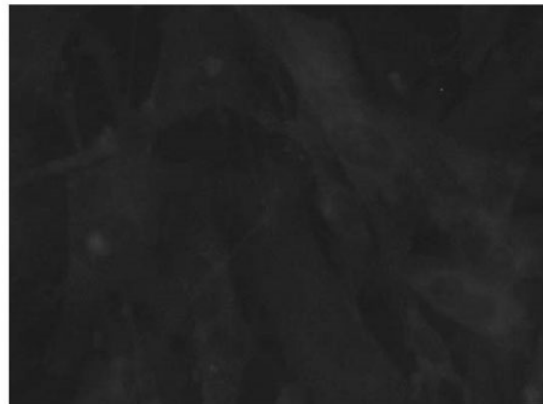
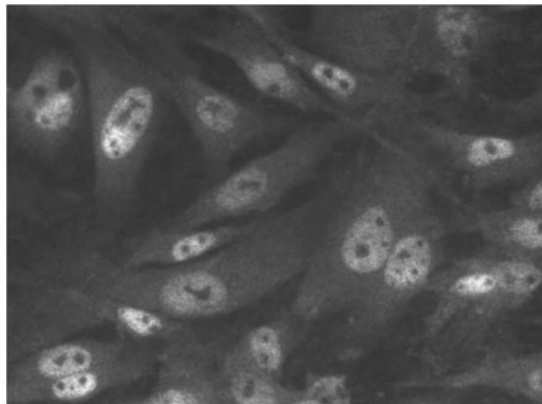
Recommended	SUSI6 3B	Neat	supernatant						
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**SUSI63B is able to detect mouse SA-1 protein in immunocytochemistry**

MEFs WT

MEFs SA1 KO

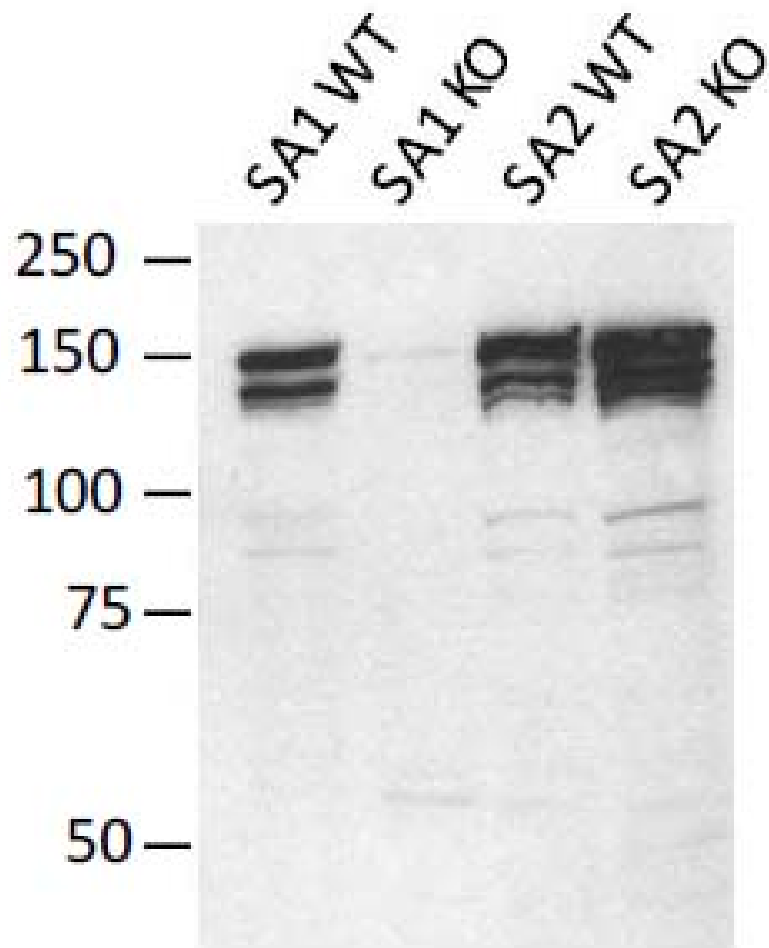


**SUSI63B mAb can be used to detect SA-1 protein by immunofluorescence in mouse cells**

Mouse embryo fibroblasts (MEFs) from wild type or Stag1 KO embryos fixed in paraformaldehyde.

## Monoclonal Antibodies Catalogue

WB Techniques	Clone	Dilution	Antibody concentration	Positive control	Negative control	Expected MW	Observed Mw	Positivity in other species
<b>Western Blotting</b>								
Recommended	SUSI 63B	undiluted supernatant	supernatant			144 kDa	144kDa	
<b>Immunoprecipitation</b>								



## SUSI 63B

**SUSI 63B mAb is able to detect mouse SA1 protein by WB**

Lane 1 Whole mouse embryo fibroblast Mef extract SA1 WT (10ug) (+)

Lane 2 Whole mouse embryo fibroblast Mef extract SA1 KO (10ug) (-)

Lane 3 Whole mouse embryo fibroblast Mef extract SA2 WT (10ug) (+)

Lane 4 Whole mouse embryo fibroblast Mef extract SA2 KO (10ug) (+)