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:	http://www.uniprot.org/uniprot/Q9D3E6
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

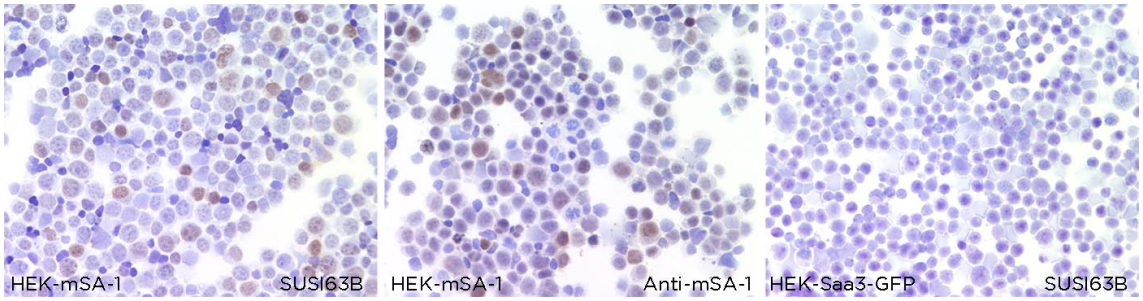
DESCRIPTION

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.

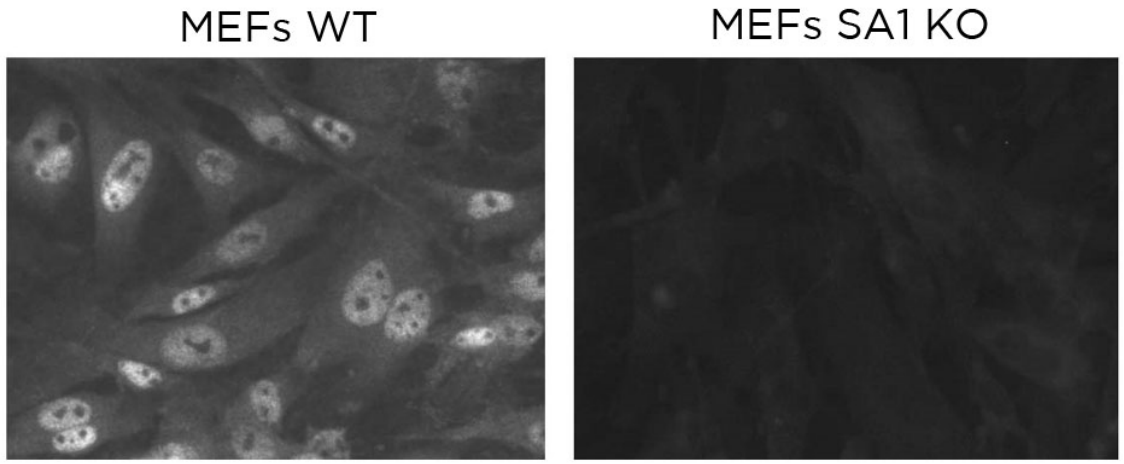
APPLICATIONS

IHC Techniques	Clone	Dilution	Antibody concentration	Antigen retrieval method	Visualization kit	Positive control	Negative control	Protein localization	Positivity in other species
Frozen tissue and cytospins									
Recommended	SUSI63B	undiluted	supernatant					nuclear	
Paraffin tissue									
Immunofluorescence									

Recommended	SUSI63B	Neat	supernatant						



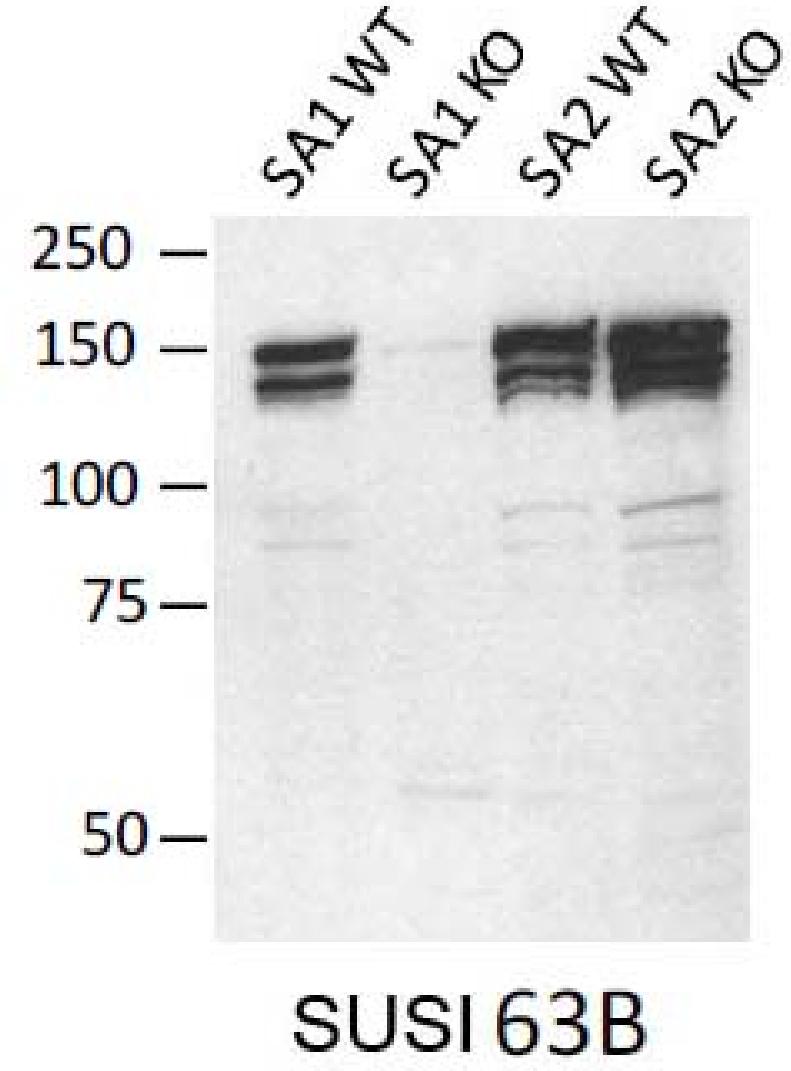
SUSI63B is able to detect mouse SA-1 protein in immunocytochemistry



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.

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



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) (+)