SA1 - STAG1

CONTACT INFORMATION:	Monoclonal Antibodies Unit. Centro Nacional de Investigaciones Oncológicas
STATUS:	Validated
TYPE:	Rat monoclonal
CLONE NAME:	SUSI63B
PROTEIN:	Cohesin subunit SA-1
PROTEIN WEB:	https://www.uniprot.org/uniprot/Q8WVM7
ANTIGEN USED:	mSA-1-MBP recombinant protein (N terminal fragment 225 aa; 99% identity with human SA-1)
FUSION PARTNER:	NS1/Ag4-1 (NS1) cells
ISOTYPE:	IgG2a
SPECIES REACTIVITY:	human and mouse
PREPARATION AND STORAGE:	Aliquot and store at 4C. Do not freeze

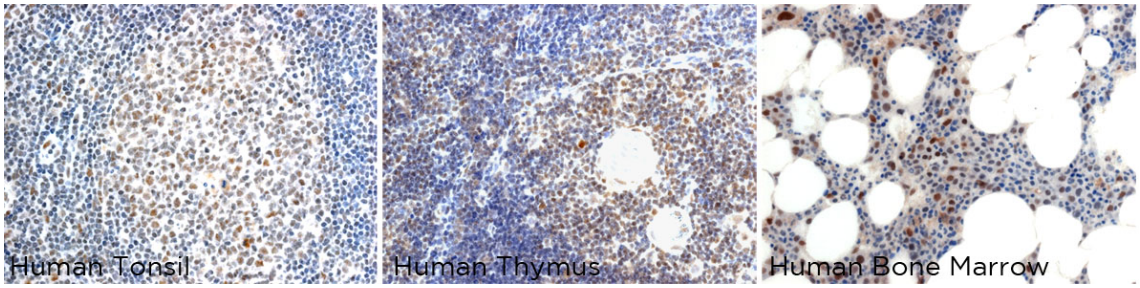
DESCRIPTION

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.

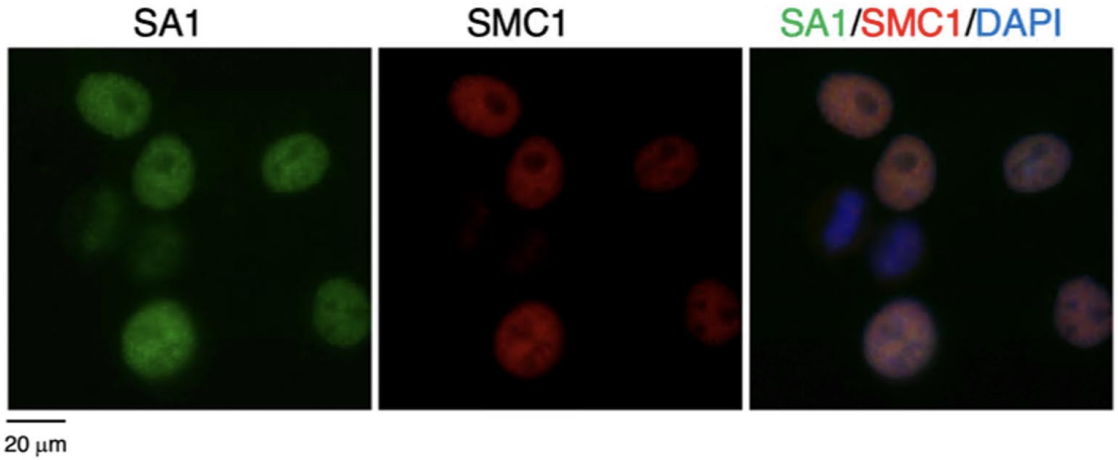
APPLICATIONS

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									
Paraffin tissue									
Recommended	SUSI63B	Neat	supernatant			Tonsil			
Immunofluorescence									

Recommended	SUSI6 3B	Neat	supernatant						



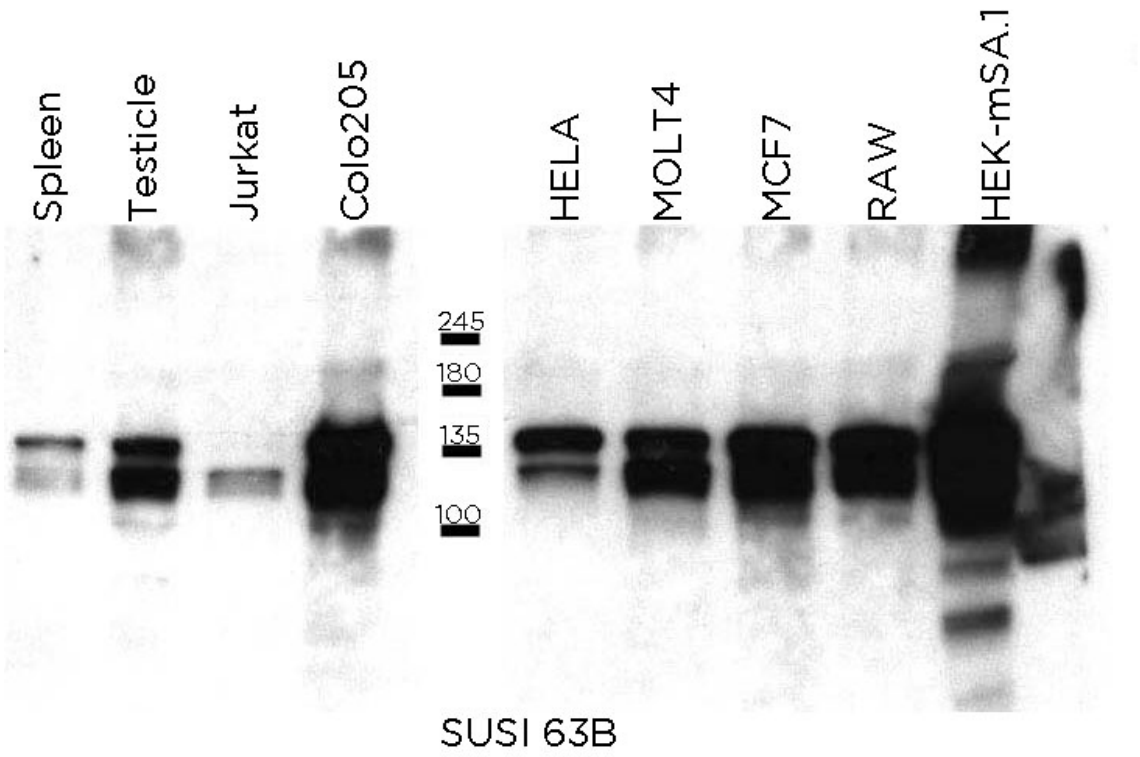
SUSI63B mAb can be used to detect SA-1 protein in human paraffin tissues



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

HeLa cells fixed with paraformaldehyde and permeabilized with 0.2% Triton X-100

WB Techniques	Clone	Dilution	Antibody concentration	Positive control	Negative control	Expected MW	Observed Mw	Positivity in other species
Western Blotting								
Recommended	SUSI63B	Neat	supernatant	Hela cell line		144kDa	144kDa	
Immunoprecipitation								



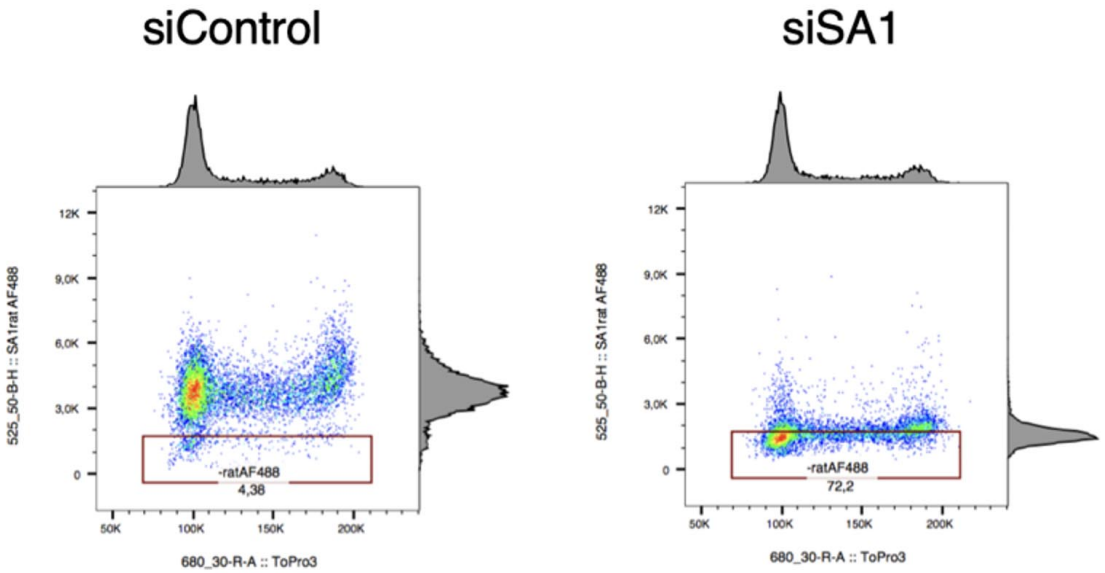
SUSI63B mAb is able to detect endogenous mouse and human SA-1 protein by WB.

LANES

Lane 1 Human spleen (100ug) (+)

Lane 2 Human testicle (100ug) (+)
Lane 3 Jurkat cell line (100ug) (+)
Lane 4 Colo205 cell line (100ug) (+)
Lane 5 HeLa cell line (100ug) (+)
Lane 6 Molt-4 cell line (100ug) (+)
Lane 7 MCF-7 cell line (100ug) (+)
Lane 8 RAW cell line (100ug) (+)
Lane 9 HEK-mSA-1 transfected cells (10ug) (+)

FLOW CYTOMETRY	Clone	Dilution	Positive control	Negative control	Type of fluorocrom
Recommended	SUSI63B				



SUSI63B mAb can be used to detect human SA-1 protein by flow cytometry

HeLa cells mock transfected or transfected with siRNA against hSA-1