

Rabbit SA1 Polyclonal Antibody | anti-STAG1 antibody

SA1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA31174	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig(100%), Bovine(100%), Horse(100%), Sheep(100%), Rabbit(100%), Dog(100%), Chicken(100%), Xenopus(100%)	Western Blot, ELISA

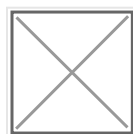
PRODUCT SYNONYMS

SA1; Polyclonal Antibody; SA1 Antibody; Cohesin subunit SA 1; Cohesin subunit SA-1; Cohesin Subunit SA1; Nuclear protein stromal antigen 1; SA 1; SCC 3 homolog 1; Scc3; SCC3 homolog 1; STAG 1; stag1; STAG1_HUMAN; Stromal antigen 1; anti-STAG1 antibody

PRODUCT SPECIFICATIONS

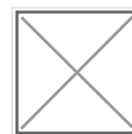
Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig(100%), Bovine(100%), Horse(100%), Sheep(100%), Rabbit(100%), Dog(100%), Chicken(100%), Xenopus(100%)
Clonality	Polyclonal
Isotype	IgG
Specificity	SA1 Antibody detects endogenous levels of total SA1.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
Concentration	1mg/ml (varies by lot)
Sequence Length	1258
Applicable Applications for anti-STAG1 antibody	WB (Western Blot), ELISA
Application Notes	WB: 1:500-1:2000 IHC: 1:50-1:200 ELISA(peptide): 1:20,000-1:40,000
Immunogen	A synthesized peptide derived from human SA1, corresponding to a region within N-terminal amino acids.
Fragment	Fab fragment
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry-Paraffin)

AAA31174 at 1/100 staining Mouse heart tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry-Paraffin)

AAA31174 at 1/100 staining Rat heart tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



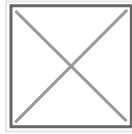
IHC (Immunohistochemistry-Paraffin)

AAA31174 at 1/100 staining Rat spleen tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



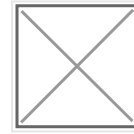
IHC (Immunohistochemistry-Paraffin)

AAA31174 at 1/100 staining Rat lung tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry-Paraffin)

AAA31174 at 1/100 staining Rat kidney tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry-Paraffin)

AAA31174 at 1/100 staining Rat brain tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-STAG1 antibody

Function: 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.

Post Translational Modifications: Phosphorylated by PLK1. The large dissociation of cohesin from chromosome arms during prophase is partly due to its phosphorylation (By similarity).

Subcellular Location: Nucleus. Chromosome. Chromosome>Centromere. Note: Associates with chromatin. Before prophase it is scattered along chromosome arms. During prophase, most of cohesin complexes dissociate from chromatin probably because of phosphorylation by PLK1, except at centromeres, where cohesin complexes remain. At anaphase, the RAD21 subunit of cohesin is cleaved, leading to the dissociation of the complex from chromosomes, allowing chromosome separation.

Subunit Structure: Cohesin complexes are composed of a heterodimer between a SMC1 protein (SMC1A or SMC1B) and SMC3, which are attached via their hinge domain, and RAD21 which link them at their heads, and one STAG protein (STAG1, STAG2 or STAG3). In cohesin complexes, STAG1 is mutually exclusive with STAG2 and STAG3 (PubMed:11076961). Interacts directly with RAD21 in cohesin complex (By similarity). Found in a cohesin complex with SMC1A, SMC3 and RAD21 (PubMed:22628566).

Similarity: Belongs to the SCC3 family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	209572720
NCBI GeneID	10274
UniProt Accession #	Q8WVM7
Molecular Weight	Observed Molecular Weight: (Observed)144kD. Predicted Molecular Weight: (Calculated)144kDa.
NCBI Official Full Name	Cohesin subunit SA-1
NCBI Official Synonym Full Names	stromal antigen 1
NCBI Official Symbol	STAG1
NCBI Official Synonym Symbols	SA1; MRD47; SCC3A
NCBI Protein Information	cohesin subunit SA-1

UniProt Protein Name	Cohesin subunit SA-1
UniProt Gene Name	STAG1
UniProt Synonym Gene Names	SA1
UniProt Entry Name	STAG1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/sa1-antibody-western-blot-elisa/31174>