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STAG2 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20917b

Product Information

Application	WB, E
Primary Accession	Q8N3U4
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB50797
Calculated MW	141326

Additional Information

Gene ID	10735
Other Names	Cohesin subunit SA-2, SCC3 homolog 2, Stromal antigen 2, STAG2, SA2
Target/Specificity	This STAG2 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 61-94 amino acids from the N-terminal region of human STAG2.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	STAG2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	STAG2
Synonyms	SA2
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.
Cellular 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. In germ cells, cohesin complex dissociates from chromatin at prophase I, and may be replaced by a meiosis-specific cohesin complex

Background

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.

References

Bechtel S.,et al.BMC Genomics 8:399-399(2007).
Ross M.T.,et al.Nature 434:325-337(2005).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
Carramolino L.,et al.Gene 195:151-159(1997).
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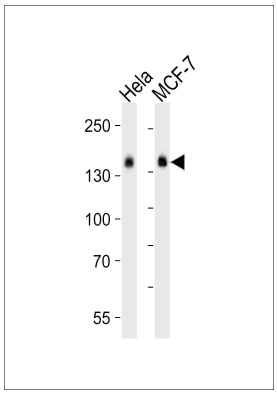
Images



Western blot analysis of lysates from Hela, MCF-7 cell line (from left to right), using STAG2 Antibody (N-term)(Cat. #AP20917b). AP20917b was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 20ug per lane.