STAG2 Peptide - N-Terminal Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	STAG2, Blocking Peptide
Full Product Name	STAG2 Peptide - N-terminal region
Product Gene Name	STAG2 blocking peptide
Product Synonym Gene Name	SA2; SA-2; SCC3B; bA517O1.1
Sequence	Synthetic peptide located within the following region: EDIEGKNQKQ GKGKTCKKGK KGPAEKGKGG NGGGKPPSGP NRMNGHHQQN
Species Reactivity	Human
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	STAG2 peptide (MBS3246505) is used for blocking the activity of STAG2 antibody (MBS3221779)
Molecular Weight	135 kDa
OMIM	300826
Product Categories/Family for STAG2 blocking peptide	Peptide
Related Product Information for STAG2 blocking peptide	This is a synthetic peptide designed for use in combination with anti- STAG2 Antibody, made Target Description: The protein encoded by this gene is a subunit of the cohesin complex, which regulates the separation of sister chromatids during cell division. Targeted inactivation of this gene results in chromatid cohesion defects and aneuploidy, suggesting that genetic disruption of cohesin is a cause of aneuploidy in human cancer. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Other Notes	Small volumes of STAG2 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for STAG2 purchase	MBS3246505 is a blocking peptide targeting STAG2. Also known as STAG2 Peptide - N-terminal region. Reactive in Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for STAG2. It may not necessarily be applicable to this product.

NCBI GI #	112789526
NCBI GeneID	10735
NCBI Accession #	NP_001036214.1
UniProt Primary Accession #	Q8N3U4
UniProt Related Accession #	Q8N3U4
GenBank Nucleotide #	NM_001042749.2
NCBI Official Full Name	cohesin subunit SA-2 isoform a
NCBI Official Synonym Full Names	stromal antigen 2

NCBI Official Symbol	STAG2
NCBI Official Synonym Symbols	SA2; SA-2; SCC3B; bA517O1.1
UniProt Protein Name	Cohesin subunit SA-2
UniProt Synonym Protein Names	SCC3 homolog 2; Stromal antigen 2
Protein Family	Cofilin
UniProt Gene Name	STAG2
UniProt Synonym Gene Names	SA2
UniProt Entry Name	STAG2_HUMAN
NCBI Protein Information	cohesin subunit SA-2
NCBI Summary for STAG2	The protein encoded by this gene is a subunit of the cohesin complex, which regulates the separation of sister chromatids during cell division. Targeted inactivation of this gene results in chromatid cohesion defects and aneuploidy, suggesting that genetic disruption of cohesin is a cause of aneuploidy in human cancer. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2013]
UniProt Comments for STAG2	STAG2: 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. Interacts directly with RAD21 in cohesin complex. 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, STAG2 is mutually exclusive with STAG1 and STAG3. Belongs to the SCC3 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Transcription, coactivator/corepressor Chromosomal Location of Human Ortholog: Xq25 Cellular Component: nucleoplasm; intermediate filament cytoskeleton; membrane; plasma membrane; nucleolus; chromosome; chromatin; nucleus; cytosol; chromosome, pericentric region; actin cytoskeleton Molecular Function: protein binding; chromatin binding Biological Process: mitosis; meiotic cell cycle; cell division; stem cell maintenance; sister chromatid cohesion; negative regulation of DNA endoreduplication; mitotic cell cycle
Research Articles on STAG2	**1.** STAG2 is the most frequently mutated cohesin subunit and was recently identified as a gene that is commonly altered in bladder cancer. The significance of these mutations remains controversial. Some studies associate loss of STAG2 expression with low stage and low grade bladder tumors, as well as with improved clinical outcomes. [review]
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