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STAG1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant STAG1.
Catalog # AT4055a

Product Information

Application	WB, IHC, IF, E
Primary Accession	Q8WVM7
Other Accession	BC064699
Reactivity	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgG2b Kappa
Clone Names	2E10
Calculated MW	144427

Additional Information

Gene ID	10274
Other Names	Cohesin subunit SA-1, SCC3 homolog 1, Stromal antigen 1, STAG1, SA1
Target/Specificity	STAG1 (AAH64699, 1112 a.a. ~ 1221 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IHC~~1:100~500 IF~~1:50~200 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	STAG1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

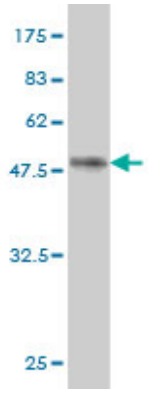
This gene is a member of the SCC3 family and is expressed in the nucleus. It encodes a component of cohesin, a multisubunit protein complex that provides sister chromatid cohesion along the length of a chromosome from DNA replication through prophase and prometaphase, after which it is dissociated in preparation for segregation during anaphase.

References

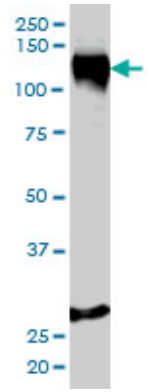
Forty-three loci associated with plasma lipoprotein size, concentration, and cholesterol content in genome-wide analysis. Chasman DI, et al. PLoS Genet, 2009 Nov. PMID 19936222.Differential regulation of telomere and centromere cohesion by the Scc3 homologues SA1 and SA2, respectively, in human cells.

Canudas S, et al. J Cell Biol, 2009 Oct 19. PMID 19822671.CTCF physically links cohesin to chromatin. Rubio ED, et al. Proc Natl Acad Sci U S A, 2008 Jun 17. PMID 18550811.Human Scc4 is required for cohesin binding to chromatin, sister-chromatid cohesion, and mitotic progression. Watrin E, et al. Curr Biol, 2006 May 9. PMID 16682347.Diversification of transcriptional modulation: large-scale identification and characterization of putative alternative promoters of human genes. Kimura K, et al. Genome Res, 2006 Jan. PMID 16344560.

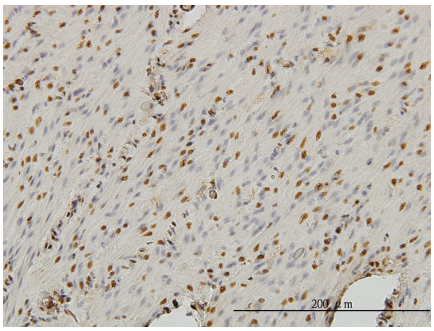
Images



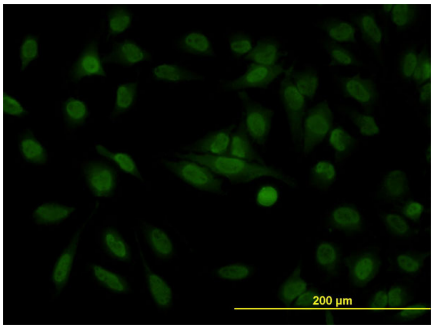
Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (37.73 KDa) .



STAG1 monoclonal antibody (M01), clone 2E9 Western Blot analysis of STAG1 expression in HeLa ((Cat # AT4055a)

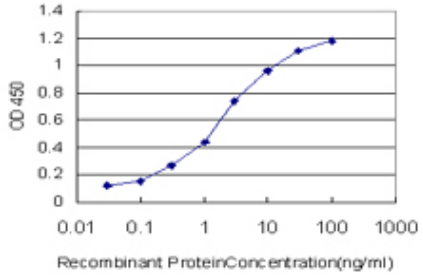


Immunoperoxidase of monoclonal antibody to STAG1 on formalin-fixed paraffin-embedded human smooth muscle. [antibody concentration 3 ug/ml]



Immunofluorescence of monoclonal antibody to STAG1 on HeLa cell. [antibody concentration 10 ug/ml]

Detection limit for recombinant GST tagged STAG1 is approximately 0.03ng/ml as a capture antibody.



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.