Cyclin A1 (CCNA1) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Cyclin A1 (CCNA1), Polyclonal Antibody
Full Product Name	Cyclin A1 Antibody
Product Gene Name	anti-CCNA1 antibody
Product Synonym Names	Cyclin A1
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Specificity	The antibody detects endogenous levels of total Cyclin A1 protein.
Preparation and Storage	Store at 4 degree C short term. Aliquot and store at -20 degree C long term. Avoid freeze/thaw cycles.
Molecular Weight	53kDa
Chromosome Location	Chromosome: 13; NC_000013.10 (37005967..37017019). Location: 13q12.3-q13
OMIM	604036
3D Structure	ModBase 3D Structure for P78396
Immunogen	Synthesized peptide derived from human Cyclin A1.
Product Categories/Family for anti-CCNA1 antibody	Primary Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CCNA1 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-CCNA1 antibody	WB: 1:500~1:3000 IHC: 1:50~1:100
Related Product Information for anti-CCNA1 antibody	May be involved in the control of the cell cycle at the G1/S (start) and G2/M (mitosis) transitions. May primarily function in the control of the germline meiotic cell cycle and additionally in the control of mitotic cell cycle in some somatic cells.
Product References and Citations for anti-CCNA1 antibody	Carsten Mueller-Tidow, Mol. Cell. Biol., Oct 2004; 24: 8917 - 8928.Rong Yang, Mol. Cell. Biol., Mar 1999; 19: 2400 - 2407Carsten Mueller-Tidow, Blood, Apr 2001; 97: 2091 - 2097.Sven Diederichs, J. Biol. Chem., Aug 2004; 279: 33727 - 33741
Other Notes	Small volumes of anti-CCNA1 antibody 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 CCNA1 purchase	MBS8586939 is an antibody targeting CCNA1. Also known as Cyclin A1 Antibody. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CCNA1. It may not necessarily be applicable to this product.

NCBI GI #	161377468
NCBI GeneID	8900
NCBI Accession #	NP_001104515.1
UniProt Primary Accession #	P78396
UniProt Secondary Accession #	Q5T3V0; Q5U0G2; Q8IY91; B7Z7E3
UniProt Related Accession #	P78396
GenBank Nucleotide #	NM_001111045.1
NCBI Official Full Name	cyclin-A1 isoform b
NCBI Official Synonym Full Names	cyclin A1
NCBI Official Symbol	CCNA1
UniProt Protein Name	Cyclin-A1
Protein Family	Cyclin
UniProt Gene Name	CCNA1
UniProt Entry Name	CCNA1_HUMAN
NCBI Protein Information	cyclin-A1
NCBI Summary for CCNA1	The protein encoded by this gene belongs to the highly conserved cyclin family, whose members are characterized by a dramatic periodicity in protein abundance through the cell cycle. Cyclins function as regulators of CDK kinases. Different cyclins exhibit distinct expression and degradation patterns which contribute to the temporal coordination of each mitotic event. The cyclin encoded by this gene was shown to be expressed in testis and brain, as well as in several leukemic cell lines, and is thought to primarily function in the control of the germline meiotic cell cycle. This cyclin binds both CDK2 and CDC2 kinases, which give two distinct kinase activities, one appearing in S phase, the other in G2, and thus regulate separate functions in cell cycle. This cyclin was found to bind to important cell cycle regulators, such as Rb family proteins, transcription factor E2F-1, and the p21 family proteins. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for CCNA1	CCNA1: May be involved in the control of the cell cycle at the G1/S (start) and G2/M (mitosis) transitions. May primarily function in the control of the germline meiotic cell cycle and additionally in the control of mitotic cell cycle in some somatic cells. Belongs to the cyclin family. Cyclin AB subfamily. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Nuclear receptor co-regulator; Cancer Testis Antigen (CTA); Cell cycle regulation Chromosomal Location of Human Ortholog: 13q12.3-q13 Cellular Component: nucleoplasm; microtubule cytoskeleton; cytosol Molecular Function: protein binding; protein kinase binding Biological Process: G1/S-specific transcription in mitotic cell cycle; mitosis; male meiosis I; cell division; regulation of G2/M transition of mitotic cell cycle; spermatogenesis; regulation of cyclin-dependent protein kinase activity; mitotic cell cycle; G2/M transition of mitotic cell cycle; G1/S transition of mitotic cell cycle
Research Articles on CCNA1	**1.** Nuclear FoxO3a promotes cell cycle progression by transcriptional upregulation of cyclin A1, promoting proliferation of human anaplastic thyroid carcinoma cells.
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