Cyclin A Monoclonal Antibody

Catalog No	BYmab-16720
Isotype	IgG
Reactivity	Human;Mouse;Rat;Monkey
Applications	WB
Gene Name	CCNA1/CCNA2
Protein Name	Cyclin-A1/2
Immunogen	The antiserum was produced against synthesized peptide derived from human Cyclin A. AA range:221-270
Specificity	Cyclin A Monoclonal Antibody detects endogenous levels of Cyclin A protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	CCNA1; Cyclin-A1; CCNA2; CCN1; CCNA; Cyclin-A2; Cyclin-A
Observed Band	53kD
Cell Pathway	Nucleus .
Tissue Specificity	Very high levels in testis and very low levels in brain. Also found in myeloid leukemia cell lines.
Function	developmental stage:Expression increases in early G1 phase and reaches highest levels during the S and G2/M phases.,function: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.,similarity:Belongs to the cyclin family.,similarity:Belongs to the cyclin family. Cyclin AB subfamily.,subunit:Interacts with the CDK2 and the CDC2 protein kinases to form a serine/threonine kinase holoenzyme complex. The cyclin subunit imparts substrate specificity to the complex. Does not bind CDK4 and CDK5 (in vitro). The cyclin A1-CDK2 complex interacts with transcription factor E2F-1 and RB proteins. Found in a complex with CDK2, CABLES1 and CCNE1 (By similarity).

	Interacts with INCA1 and KLHDC9.,tissue specificit
Background	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. Multi
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

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