10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Cyclin A2 Antibody

Rabbit mAb
Catalog # AP90837

Product Information

Application	WB, IHC, IF, ICC, IHF
Primary Accession	P20248
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Other Names	CCN1; CCNA; Ccna2; Cyclin A2; Cyclin-A;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	48551

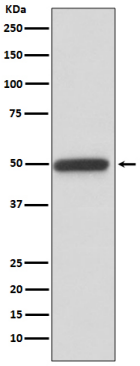
Additional Information

Dilution	WB 1:1000~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human Cyclin A2
Description	Cyclin A seems to be required for both S-phase and M-phase. A number of studies have described the ability of over-expressed cyclin A to accellerate the G1 to S transition causing DNA replication, and cyclin A antisense DNA can prevent DNA replication. Cyclin A availability is apparently the rate-limiting step for entry into mitosis, and cyclin A is required for completion of prophase.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Protein Information

Name	CCNA2 (HGNC:1578)
Function	Essential for the control of the cell cycle at G1/S and G2/M transition (PubMed:1312467). Functions through the formation of specific serine/threonine protein kinase holoenzyme complexes with the cyclin-dependent protein kinases CDK1 or CDK2. The cyclin subunit confers the substrate specificity of these complexes and differentially interacts with and activates CDK1 and CDK2 throughout the cell cycle (PubMed:41100585).
Cellular Location	Nucleus. Cytoplasm. Note=Exclusively nuclear during interphase (PubMed:1312467). Detected in the nucleus and the cytoplasm at prophase (PubMed:1312467). Cytoplasmic when associated with SCAPER (PubMed:17698606).

Images



Western blot analysis of Cyclin A2 expression in Jurkat cell lysate.

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