

Anti-Cyclin A1 Picoband Antibody

Catalog # ABO12173

Product Information

Application	WB
Primary Accession	P78396
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Cyclin-A1(CCNA1) detection. Tested with WB in Human.

Reconstitution Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	8900
Other Names	Cyclin-A1, CCNA1
Calculated MW	52358
Application Details	Western blot, 0.1-0.5 µg/ml, Human
Subcellular Localization	Nucleus .
Tissue Specificity	Very high levels in testis and very low levels in brain. Also found in myeloid leukemia cell lines.
Source	Eukaryota
Protein Name	Cyclin-A1
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Na ₃ .
Immunogen	E.coli-derived human Cyclin A1 recombinant protein (Position: D64-E263). Human Cyclin A1 shares 78.5% and 79.5% amino acid (aa) sequence identity with mouse and rat Cyclin A1, respectively.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Sequence Similarities

Belongs to the cyclin family. Cyclin AB subfamily.

Protein Information

Name	CCNA1
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.
Cellular Location	Nucleus {ECO:0000250 UniProtKB:P20248}.
Tissue Location	Very high levels in testis and very low levels in brain. Also found in myeloid leukemia cell lines

Background

Cyclin-A1 is a protein that in humans is encoded by the CCNA1 gene. 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. Also 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.

Images



Anti- Cyclin A1 Picoband antibody, ABO12173, Western blotting
All lanes: Anti Cyclin A1 (ABO12173) at 0.5ug/ml
WB: Human Placenta Tissue Lysate at 50ug
Predicted bind size: 52KD
Observed bind size: 52KD

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