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Anti-Cyclin A1 Picoband Antibody
Catalog # ABO12173

Specification

Anti-Cyclin A1 Picoband Antibody - 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.

Anti-Cyclin A1 Picoband Antibody - Additional Information

Gene ID 8900

Other Names
Cyclin-A1, CCNA1

Calculated MW
52358 MW KDa

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.

Protein Name
Cyclin-A1

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

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 r˚Constitution, 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.

Anti-Cyclin A1 Picoband Antibody - 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

Anti-Cyclin A1 Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-Cyclin A1 Picoband Antibody - Images

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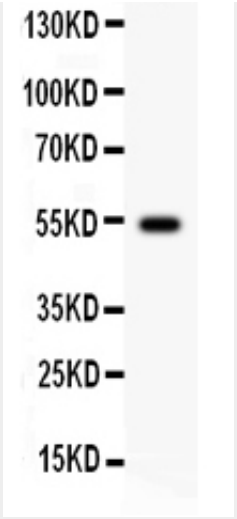

Anti- Cyclin A1 Picoband antibody, ABO12173, Western blottingAll lanes: Anti Cyclin A1 (ABO12173) at 0.5ug/mlWB: Human Placenta Tissue Lysate at 50ugPredicted bind size: 52KDObserved bind size: 52KD

Anti-Cyclin A1 Picoband Antibody - 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.