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CCNA2 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP7292b

Specification

CCNA2 Antibody (C-term) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	P20248
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit Ig**
Calculated MW	**48551**
Antigen Region	**358-389**

CCNA2 Antibody (C-term) - Additional Information

Gene ID 890

Other Names
Cyclin-A2, Cyclin-A, CCNA2, CCN1, CCNA

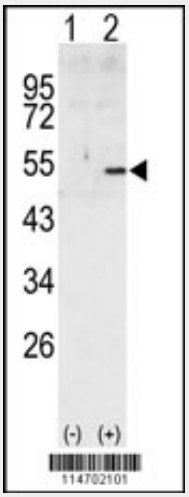
Target/Specificity
This CCNA2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 358-389 amino acids from the C-terminal region of human CCNA2.

Dilution
WB~~1:1000
IHC-P~~1:10~50

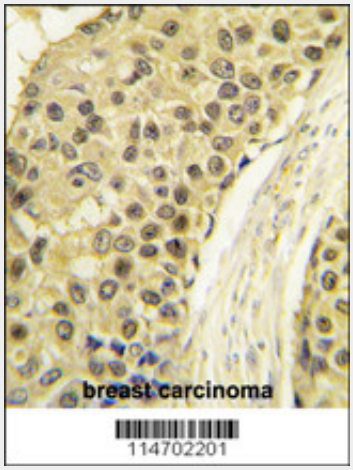
Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
CCNA2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.



Western blot analysis of CCNA2 (arrow) using rabbit polyclonal CCNA2 Antibody (C-term) (Cat.#AP7292b). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the CCNA2 gene (Lane 2) (Origene Technologies).



Formalin-fixed and paraffin-embedded human breast carcinoma tissue reacted with CCNA2 antibody (C-term) (Cat.#AP7292b), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

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CCNA2 Antibody (C-term) - Protein Information

Name CCNA2 (HGNC:1578)

Function
Cyclin which controls both the G1/S and the G2/M transition phases of the cell cycle. 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.

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).

CCNA2 Antibody (C-term) - 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

CCNA2 Antibody (C-term) - Background

CCNA2 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. In contrast to cyclin A1, which is present only in germ cells, this cyclin is expressed in all tissues tested. This cyclin binds and activates CDC2 or CDK2 kinases, and thus promotes both cell cycle G1/S and G2/M transitions.

CCNA2 Antibody (C-term) - References

Henglein B.,Proc. Natl. Acad. Sci. U.S.A. 91:5490-5494(1994)
Wang J.,Nature 343:555-557(1990)
Tsang,W.Y.,J. Cell Biol. 178 (4), 621-633 (2007)