Product Datasheet

Cyclin A1+ Cyclin A2 Rabbit mAb

Catalog No: #49194

Package Size: #49194-1 50ul #49194-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

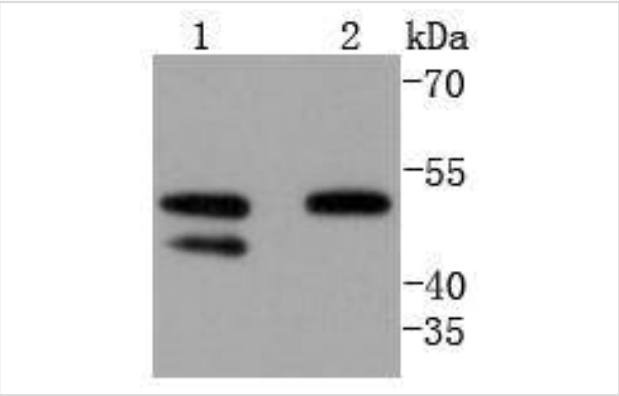
Description

Product Name	Cyclin A1+ Cyclin A2 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	SD2053
Purification	ProA affinity purified
Applications	WB, IHC, IP
Species Reactivity	Hu
Immunogen Description	recombinant protein
Other Names	CCN1 antibody CCNA antibody CCNA1 antibody CCNA2 antibody CT146 antibody Cyclin-A antibody Cyclin-A1 antibody Cyclin-A2 antibody
Accession No.	Swiss-Prot#:P20248
Uniprot	P20248
GeneID	890;
Calculated MW	52/49 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

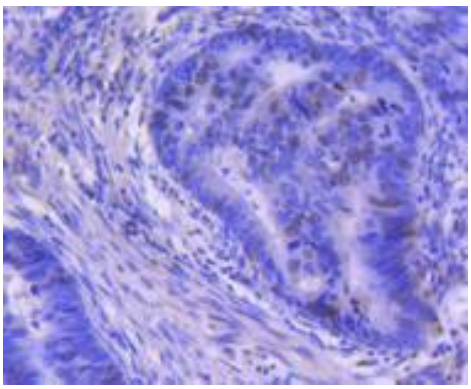
Application Details

WB: 1:1,000-1:2,000 IHC: 1:50-1:200

Images



Western blot analysis of Cyclin A1/A2 on different lysates using anti-Cyclin A1/A2 antibody at 1/1,000 dilution. Positive control: Lane 1: Hela Lane 2: HepG2



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue using anti-Cyclin A1/A2 antibody. Counter stained with hematoxylin.

Background

The critical role that the family of regulatory proteins known as cyclins play in eukaryotic cell cycle regulation is well established. Cyclin A accumulates prior to cyclin B in the cell cycle, appears to be involved in control of S phase and has been shown to associate with cyclin-dependent kinase-2 (Cdk2). In addition, cyclin A has been implicated in cell transformation and is found in complexes with E1A, transcription factors DRTF1 and E2F, and retinoblastoma protein p110. A second form of cyclin A, named cyclin A1 because of its high sequence homology to Xenopus cyclin A1, is most highly expressed in germ cells. It has been proposed that cyclin A1 can associate with Cdk2, p39 and Cdc2 p34. Cyclin A2 is a member of the highly conserved cyclin family. Cyclins regulate CDK kinases and different cyclins exhibit distinct expression and degradation patterns which contribute to the temporal coordination of each mitotic event. Cyclin A2 is expressed in all tissues tested, in contrast to cyclin A1, which is present only in germ cells. The Cyclin A2 protein binds and activates CDC2 or CDK2 kinases, and thus promotes both cell cycle G1/S and G2/M transitions. Cyclin A2 also functions in the transition to DNA replication and synthesis phases of the cell cycle and is quickly destroyed as the cell moves into mitosis.

References

Note: This product is for in vitro research use only