

Datasheet for ABIN967424

anti-Cyclin A antibody

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Overview

Quantity:	0.1 mg
Target:	Cyclin A (CCNA2)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunoprecipitation (IP)

Product Details

Brand:	BD Pharmingen™
Immunogen:	Human Cyclin A Recombinant Protein
Clone:	BF683
Isotype:	IgE
Characteristics:	<ol style="list-style-type: none">1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.2. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.3. Please refer to us for technical protocols.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Target Details

Target:	Cyclin A (CCNA2)
Alternative Name:	Cyclin A (CCNA2 Products)
Background:	<p>Cyclins and cyclin-dependent kinases (cdks) are evolutionarily conserved proteins that are essential for cell-cycle control in eukaryotes. Cyclins (regulatory subunits) bind to cdks (catalytic subunits) to form complexes that regulate the progression of the cell cycle. The main cyclin-cdks complexes formed in vertebrate cells are cyclin D-cdk4 (G0/G1), cyclin E-cdk2 (G1/S), cyclin A-cdk2 (S) and cyclin B1-cdk1 (G2/M). These complexes are regulated by activating and inhibitory phosphorylation events, as well as by interactions with small regulatory proteins including p21 and p27Kip1. Specific substrates for cdk-cyclin complexes include nuclear lamins, histones, oncogenes (e.g., c-abl and SV40 large T-Ag), tumor suppressor genes (e.g., retinoblastoma protein, Rb), nucleolin and others. Cyclin A is involved in both S-phase and G2/M transitions of the cell cycle through its association with cdk2 and cdk1, respectively. Cyclin A may also form a complex with the adenovirus oncoprotein E1A which has DNA binding activity. Human cyclin A has been reported to migrate between 54-60 kDa by SDS-PAGE and clone BF683 reportedly does not cross-react with mouse, rat or mink cyclin A.</p>
Molecular Weight:	54-60 kDa
Pathways:	PI3K-Akt Signaling , Cell Division Cycle , AMPK Signaling , Mitotic G1-G1/S Phases , DNA Replication , M Phase , Synthesis of DNA

Application Details

Comment:	Related Products: ABIN968586, ABIN967389
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.5 mg/mL
Buffer:	Aqueous buffered solution containing ≤ 0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C

Handling

Storage Comment: Store undiluted at 4°C.

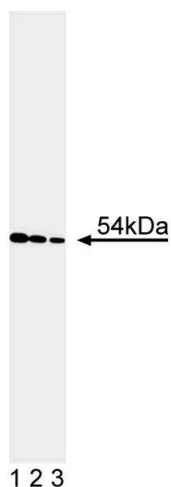
Publications

Product cited in: Jan, Adolfsson, Allaman, Buccarello, Magistretti, Pfeifer, Muhs, Lashuel: "Abeta42 neurotoxicity is mediated by ongoing nucleated polymerization process rather than by discrete Abeta42 species." in: **The Journal of biological chemistry**, Vol. 286, Issue 10, pp. 8585-96, (2011) ([PubMed](#)).

Deshmukh, Salehzadeh, Metayer-Coustard, Fahlman, Nair, Al-Khalili: "Post-transcriptional gene silencing of ribosomal protein S6 kinase 1 restores insulin action in leucine-treated skeletal muscle." in: **Cellular and molecular life sciences : CMLS**, Vol. 66, Issue 8, pp. 1457-66, (2009) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)

Images



Western Blotting

Image 1. Western blot analysis of cyclin A. K-562 cell lysates (Human bone marrow myelogenous leukemia, ATCC CCL-243) were probed with the mouse anti-human cyclin A antibody at concentration of 2.0 µg/mL (lane 1), 1.0 µg/mL (lane 2), and 0.5 µg/mL (lane 3). Cyclin A may be identified as a band migrating between 54-60 kDa.

Image 2.



Western Blotting

Image 3.

