Datasheet for ABIN97948

anti-Cyclin B1 antibody

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Overview

Quantity:	100 µL
Target:	Cyclin B1 (CCNB1)
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Cyclin B1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunoprecipitation (IP)

Product Details

Immunogen:	Anti-Cyclin B1 antibody was produced by repeated immunizations of full length fusion protein corresponding to the human gene. Immunogentype:Native
Characteristics:	Concentration Definition: by Refractometry
Purification:	This product was prepared from monospecific antiserum by delipidation and defibrination.

Target Details

Target:	Cyclin B1 (CCNB1)
Alternative Name:	Cyclin B1 (CCNB1 Products)
Background:	The protein encoded by this gene is a regulatory protein involved in mitosis. The gene product forms a complex with p34 (cdc2) to form the maturation-promoting factor (MPF). Two alternative transcripts have been found, a constitutively expressed transcript and a cell cycle-

Target Details

	regulated transcript that is expressed predominantly during G2/M phase. The different transcripts result from the use of alternate transcription initiation sites. Synonyms: G2/mitotic-specific cyclin-B1
Gene ID:	891, 14327896
UniProt:	P14635
Pathways:	Cell Division Cycle, AMPK Signaling, Mitotic G1-G1/S Phases, M Phase

Application Details

Application Notes:	This antibody is suitable for use in ELISA, immunoblotting, immunoprecipitation and other immuno-logical methods requiring high titer and specificity. Specific conditions for reactivity and detection of Cyclin B_1 should be optimized by the end user. Expect a band approximately 55-66 kDa in size corresponding to Cyclin B_1 by western blotting in the appropriate cell lysate or extract. H23 cells may be used as a positive control.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	80 mg/mL
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:	-20 °C

Publications

Product cited in:	Wallis, Ventimiglia, Otigbah, Infante, Cuesta-Geijo, Kidiyoor, Carbajal, Fleck, Foiani, Garcia-Manyes, Martin-Serrano, Agromayor: "The ESCRT machinery counteracts Nesprin-2G-mediated mechanical forces during nuclear envelope repair." in: **Developmental cell**, Vol. 56, Issue 23, pp. 3192-3202.e8, (2021) (PubMed). Merigliano, Burla, La Torre, Del Giudice, Teo, Liew, Chojnowski, Goh, Olmos, Maccaroni, Giubettini, Chiolo, Carlton, Raimondo, Vernì, Stewart, Rhodes, Wright, Burke, Saggio: "AKTIP interacts with ESCRT I and is needed for the recruitment of ESCRT III subunits to the midbody."

Publications

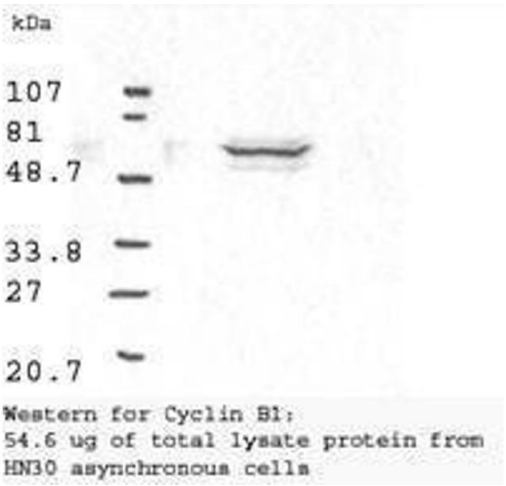
in: **PLoS genetics**, Vol. 17, Issue 8, pp. e1009757, (2021) (PubMed).

Alvarez-Castelao, Tom Dieck, Fusco, Donlin-Asp, Perez, Schuman: "The switch-like expression of heme-regulated kinase 1 mediates neuronal proteostasis following proteasome inhibition." in: **eLife**, Vol. 9, (2020) (PubMed).

Nuwer, Fleck: "Anterograde trafficking signals in GABAA subunits are required for functional expression." in: **Channels (Austin, Tex.)**, Vol. 13, Issue 1, pp. 440-454, (2020) (PubMed).

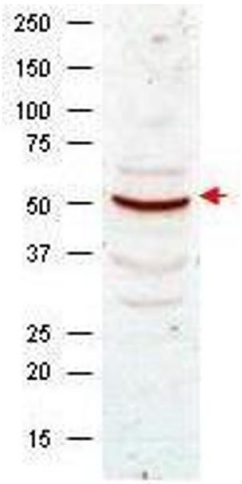
Rohde, Becker, Krähling: "Marburg virus regulates the IRE1/XBP1-dependent unfolded protein response to ensure efficient viral replication." in: **Emerging microbes & infections**, Vol. 8, Issue 1, pp. 1300-1313, (2020) (PubMed).

Images



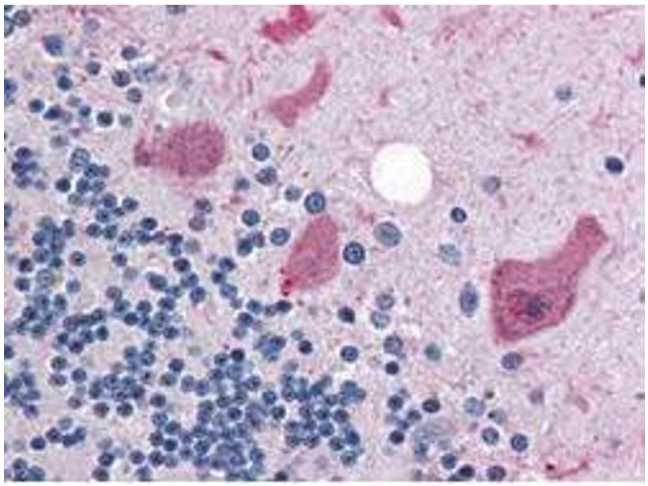
Western Blotting

Image 1. Western blot analysis using Anti-Cyclin B_1 antibody shows detection of human Cyclin B_1 present in asynchronous HN30 cell lysates. HN30 cells are from head and neck cancer tumors that over express cyclin B_1 and D_1. Comparison to a molecular weight marker indicates a band of ~62 kDa corresponding to the expected molecular weight for the protein (arrowhead). The blot was incubated with a 1:500 dilution of the antibody for 1 h at room temperature. Detection occurred using a 1:10,000 of HRP conjugated Goat-a-Rabbit IgG 611-103-122 and chemiluminescence reagent with a 1-min exposure time. Other detection systems will yield similar results. Personal communication, Luca Cote, Temple University, Philadelphia, PA.



Western Blotting

Image 2. Western blot analysis using Anti-Cyclin B_1 antibody shows detection of Cyclin B_1 present in asynchronous HeLa cell lysates. Comparison to a molecular weight marker indicates a band of ~55 kDa corresponding to human Cyclin B_1 (arrowhead). Approximately 50 µg of lysate was loaded on to a 7% SDS-PAGE gel for separation. After transfer to nitrocellulose, the blot was incubated with a 1:500 dilution of the antibody for 1 h at room temperature. Detection occurred using a 1:10,000 of HRP conjugated Goat-a-Rabbit IgG . Personal communication, Luca D'Agostino, Temple University, Philadelphia, PA.



Immunohistochemistry

Image 3. anti-Cyclin B1 antibody was diluted 1:500 to detect Cyclin B1 in human brain cerebellum tissue. Tissue was formalin fixed and paraffin embedded. No pre-treatment of sample was required. The image shows the localization of antibody as the precipitated red signal, with a hematoxylin purple nuclear counter stain.

