Datasheet for ABIN6655712

anti-Cyclin L2 antibody (AA 309-384)

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Overview

Quantity:	100 µg
Target:	Cyclin L2 (CCNL2)
Binding Specificity:	AA 309-384
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Cyclin L2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunoprecipitation (IP)

Product Details

Purpose:	Cyclin L2 Antibody
Immunogen:	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic polypeptide corresponding to amino acids 309-384 of Human Cyclin L2a protein.
Isotype:	IgG
Cross-Reactivity (Details):	This antibody is specific for human Cyclin L2a and shows negligible reactivity to Cyclin L2b or Cyclin L1 isoforms.
Purification:	This product is an affinity purified antibody produced by immunoaffinity chromatography using polypeptide coupled to agarose beads followed by solid phase adsorption(s) to remove any unwanted reactivities.
Sterility:	Sterile filtered

Target Details

Target:	Cyclin L2 (CCNL2)
Alternative Name:	Cyclin L2 (CCNL2 Products)
Background:	Synonyms: rabbit anti-Cyclin-L2 antibody, Cyclin L2, CCNL2, SB138, Paneth cell-enhanced expression protein, Cyclin Ania-6b, Paneth cell-enhanced expression protein, PCEE, Ania6b Background: Cyclin L (also referred to as CCNL) is encoded by two highly related genes Cyclin L1 and Cyclin L2 (CCNL1 and CCNL2, respectively). Cyclin L2 can be alternatively spliced to produce two isoforms (known as 1 and 2 or alpha and beta). The Cyclin L2 gene is located approximately 100-200 kb from the PITSLRE/CDK11 protein kinase locus in human (1p36) and in a syngenetic location on mouse chromosome 4q. Cyclin L2 is ubiquitous, expressed at much higher levels than Cyclin L1, and thus is likely the major partner for the CDK11p110 protein kinase. Gene Name: CCNL2, SB138
Gene ID:	81669, 14585859
UniProt:	Q96S94

Application Details

Application Notes:	Immunoprecipitation_Dilution: 1:100 ELISA_Dilution: 1:2,000 - 1:10,000 Western_Blot_Dilution: 1:500 - 1:3,000 Other: User Optimized
Comment:	This affinity purified antibody has been tested for use in ELISA and western blot. Specific conditions for reactivity should be optimized by the end user. Expect a band ~ 58 kDa in size corresponding to Cyclin L2a by western blotting in the appropriate cell lysate or extract. Although not tested, this antibody is likely functional in immunohistochemistry, immunofluorescence, and immunoprecipitation.
Restrictions:	For Research Use only

Handling

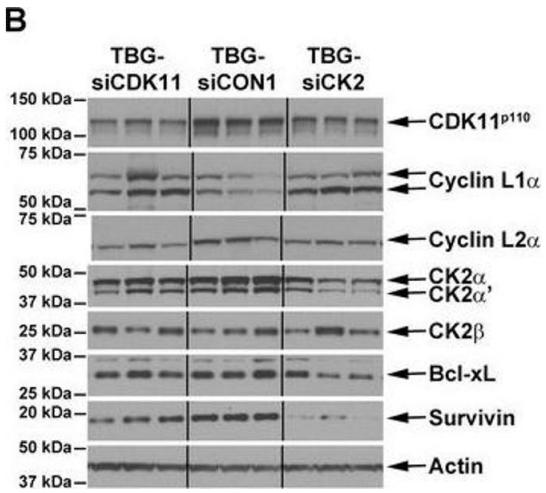
Format:	Liquid
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: None Preservative: 0.01 % (w/v) Sodium Azide

Handling

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,-20 °C
Storage Comment:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiry Date:	12 months

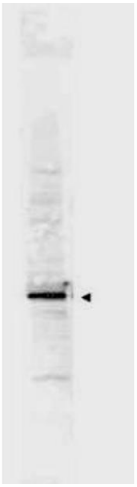
Publications

Product cited in:	Ahmed, Shaughnessy, Knutson, Vogel, Ahmed, Kren, Trembley: "CDK11 Loss Induces Cell Cycle Dysfunction and Death of BRAF and NRAS Melanoma Cells." in: **Pharmaceuticals (Basel, Switzerland)**, Vol. 12, Issue 2, (2019) (PubMed). Kren, Unger, Abedin, Vogel, Henzler, Ahmed, Trembley: "Preclinical evaluation of cyclin dependent kinase 11 and casein kinase 2 survival kinases as RNA interference targets for triple negative breast cancer therapy." in: **Breast cancer research : BCR**, Vol. 17, pp. 19, (2015) (PubMed). Loyer, Trembley, Katona, Kidd, Lahti: "Role of CDK/cyclin complexes in transcription and RNA splicing." in: **Cellular signalling**, Vol. 17, Issue 9, pp. 1033-51, (2005) (PubMed).



Western Blotting

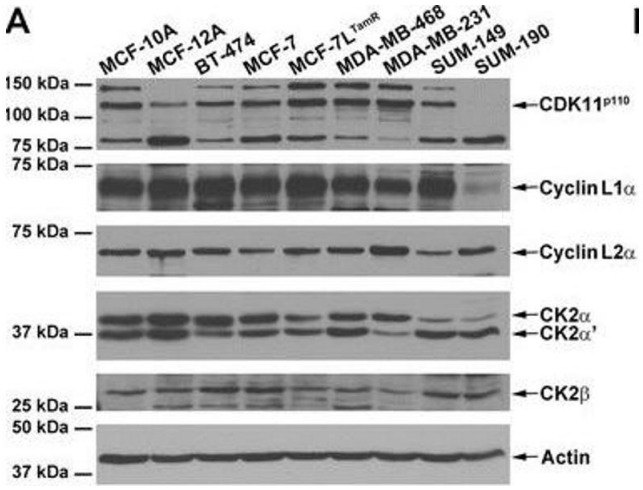
Image 1. Analysis for RNA-induced silencing complex cleavage products in treated tumors and immunoblot analysis for target protein complexes and death signals in primary tumors. (A) Total RNA was isolated from tumor tissue and used for 5' ligation-mediated RACE to determine whether RNA-induced silencing complex (RISC)-mediated cleavage of the transcript occurred. The predicted RACE products are indicated to the right, the size (base pairs (bp)) of the DNA standards shown on the left, and the treatment administered indicated above the lanes. (B) Immunoblot analysis of MDA-MB-231 day 10 tumor lysates following intravenous treatments of 0.01 mg/kg TBG-siCDK11, TBG-siCK2, or TBG-siCON1 as indicated above the blots. The signals for three mice per group are shown and the proteins detected are indicated on the right side of the blots. Actin signal was used as the loading control. (C) The protein signals from all mice in each treatment group were quantitated by densitometry using ImageJ software (National Institutes of Health Bethesda, MD, USA). Data presented as mean±standard error. *P <0.05, **P <0.01. CDK, cyclin-dependent kinase, CK2, casein kinase 2, si, small interfering, TBG, tenfibgen. - figure provided by CiteAb. Source: PMID25837326



Western Blotting

Image 2. Anti-Cyclin L2a Antibody - Western Blot. Western blot using Affinity Purified anti-Cyclin L2a antibody shows detection of a band ~38 kDa corresponding to a GST-truncated human Cyclin L2a fusion protein (arrowhead). Approximately 5 ul of an induced E.coli cell lysate expressing recombinant Cyclin L2 was separated by 4-20% SDS-PAGE followed by transfer to nitrocellulose. After blocking the membrane was probed with the primary antibody diluted to 1:1,000 overnight at 4°C followed by

washes and reaction with a 1:10,000 dilution of IRDye800 conjugated Gt-a-Rabbit IgG [H&L] MX for 45 min at room temperature. IRDye800 fluorescence image was captured using the Infrared Imaging System developed by LI-COR. IRDye is a trademark of LI-COR, Inc. Other detection systems will yield similar results.



Western Blotting

Image 3. Expression of CDK11 and CK2 protein complex members in untransformed and malignant breast cells. (A) Immunoblot analysis of cultured breast cell lines, as indicated above the blots. Proteins detected are indicated on the right side of the blots. Actin signal was used as the loading control. (B) Indirect immunofluorescent detection of CDK11, CK2α, and CK2α' (red color) in breast cell lines. Cell lines are indicated above each set of images and proteins detected are indicated on the left side of the images. Blue, 4',6-diamidino-2-phenylindole-stained nuclei. Scale bar: 100 μm. (C) Immunohistochemical detection of CDK11 proteins in human normal and malignant breast tissue. Type of breast tissue indicated on the left side of the images. Magnification indicated above the images, dotted ellipse, portion of the 100x image that is shown at 400x. Scale bars: 400 μm for 100x and 100 μm for 400x images. (D) Human microarray tissues stained for CDK11 were scored by two independent observers. The average value was taken and the results plotted for normal (n=16) versus triple-negative breast cancer (TNBC, n=44) tissues. Box, first to third (Q1 to Q3) quartiles, diamond, mean, line inside box, median, whiskers, minimum and maximums of data range. CDK, cyclin-dependent kinase, CK2, casein kinase 2. - figure provided by CiteAb. Source: PMID25837326

Please check the product details page for more images. Overall 4 images are available for ABIN6655712.