

Anti-cdc2 (p34) (RABBIT) Antibody - 100-401-160

Code: 100-401-160

Size: 100 µL

Product Description: Anti-cdc2 (p34) (RABBIT) Antibody - 100-401-160

Concentration: 85 mg/mL by Refractometry

PhysicalState: Liquid (sterile filtered)

Label	Unconjugated
Host	Rabbit
Gene Name	CDC2
Species Reactivity	human, rat, mouse
Buffer	None
Stabilizer	None
Preservative	0.01% (w/v) Sodium Azide
Storage Condition	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.
Synonyms	rabbit anti-Cdc2 antibody, rabbit anti-p34 antibody, CDC antibody, Cell Division Cycle 2 Protein antibody, Cyclin Dependent Kinase 1 antibody, DKFZp686L20222 antibody, MGC111195 antibody, p34 antibody, p34 Cdk1 antibody, p34 protein kinase antibody
Application Note	This antibody is suitable for immunoblotting, immunohistochemistry immuno-precipitation (as active kinase), and immunoblotting. HeLa cell lysate or human colon carcinoma is suggested as a positive control for immunoblotting. LEP fibroblast cell lysate is suggested as a negative control. This product is suitable for the detection by immunoblot of human, rat and mouse cdc2. For immunohistochemistry use paraffin embedded tissue.
Background	p34 cdc2 is a serine-threonine protein kinase of 34,000 daltons that complexes with cyclin to form maturation promoting factor (MPF). The inactive form of the protein is phosphorylated at threonine (T) and tyrosine (Y) residues. In humans the phosphor-ylation appears to be performed by p60src. The active form of the protein is dephosphorylated and it functions by phosphor-ylating a number of proteins. The phosphorylation activity is coupled to the entry into the M-phase of the cell. p34 cdc2 protein must be associated with a normal cyclin protein for the M-phase to be completed normally. Association with deletion mutants of cyclin halts the M-phase before it is completed.
Purity And Specificity	This product was prepared from monospecific antiserum by delipidation and defibrination. Antiserum will specifically react with a 34 kDa cdc2 protein from human, rat and mouse tissue. No reaction was observed against other related cyclin dependent kinases. Cross reactivity with cdc2 from other species may also occur.
Assay Dilutions	User Optimized
ELISA	1:60,000
Western Blot	1:250 - 1:5,000
Immunohistochemistry	1:200 - 1:1,000
Other Assays	User Optimized
Expiration	Expiration date is one (1) year from date of opening.
Immunogen	cdc2 peptide corresponding to the C-terminus of the human protein conjugated to Keyhole Limpet Hemocyanin (KLH).

Related Products

100-401-863	Anti-GADD45? (gamma) (RABBIT) Antibody - 100-401-863
200-301-174	Anti-p53 (MOUSE) Monoclonal Antibody - 200-301-174
611-1302	Anti-RABBIT IgG (H&L) (GOAT) Antibody Peroxidase Conjugated - 611-1302

B501-0500

BLOTTO Immunoanalytical Grade (Non-Fat Dry Milk) - B501-0500

Related Links

NCBI - P06493.2

<http://www.ncbi.nlm.nih.gov/protein/P06493.2>

UniProtKB - P06493

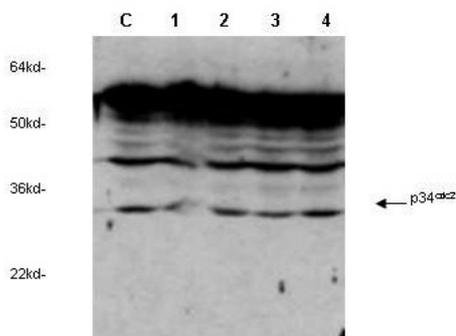
<http://www.uniprot.org/uniprot/P06493>

GeneID - 983

Images

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Rockland's anti-cdc2 Cyclin Dependent Kinase was used to detect human p34cdc2 by western blot in untreated (Control) and drug treated lysates of MCF-7 cells. Lane 1-4 represents 3.1 μ M, 6.2 μ M, 12.5 μ M and 25.0 μ M genistein treatment of cells before lysates were prepared. Detection occurs using a 1:1,000 dilution. Although this antiserum detects non-specific bands at higher MW, a clear induction of signal is observed as the concentration of drug is increased. Personnel Communication, Xiao He Yang, University of Oklahoma Health Sciences Center.



Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.