

Datasheet for 600-401-160**cdc2 phospho Y15 Antibody****Overview**

Description:	Anti-CDC2 pY15 (RABBIT) Antibody - 600-401-160
Item No.:	600-401-160
Size:	100 µL
Applications:	WB
Reactivity:	Human, Xenopus
Host Species:	Rabbit

Product Details

Background:	Cdc2 pY15 antibody recognizes Cdc2 which is a highly conserved protein serine kinase that plays a key role in regulation of the cell cycle. The ability of cdc2 to exercise control over the cell cycle is dependent upon the phosphorylation of Tyr15 in cdc2. Cdc2 expression in brain has been linked to both neurogenesis and apoptosis. Anti-Cdc2 pY15 antibody is ideal for investigators involved in Cell Signaling, Neuroscience, Signal Transduction research.
Synonyms:	CDC-like kinase 2, Clk2, Cyclin-dependent kinase 1, Cdc2, Cdc2a, Cdkn1, Cell division control protein 2 homolog, Cell division protein kinase 1, p34 protein kinase
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	Cdk1
Reactivity:	Human, Xenopus
PTM Specificity:	Phosphorylation
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-cdc2 pY15 Antibody was produced by repeated immunizations with a synthetic peptide corresponding to amino acid residues surrounding Tyr 15.

Purity/Specificity: Anti-cdc2 pY15 Antibody is directed against rat cdc2 protein phosphorylated at Y15. The antibody was prepared from monospecific antiserum by immunoaffinity chromatography using phospho peptide coupled to agarose beads followed by solid phase adsorption(s) against non-phospho peptide and non-specific peptide to remove any unwanted reactivities. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Rabbit Serum. This antibody is specific for phosphorylated cdc2. Minimal reactivity occurs against non-phosphorylated cdc2. No reactivity occurs after lambda-phosphatase treatment. Reactivity against cdc2 occurs from human and xenopus sources. However, reactivity is also expected against the following species based on 100% sequence homology: mouse, rat, and zebra fish.

Relevant Links:

- [UniProtKB - P39951](#)
- [GeneID - 54237](#)
- [NCBI - NP_062169.1](#)

Application Details

Tested Applications:	WB
Application Note:	Anti-cdc2 pY15 antibody is tested for use in ELISA and Western Blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band of approximately 34 kDa in size corresponding to cdc2 protein in the appropriate cell lysate or extract.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000
WB:	1:1000

Formulation

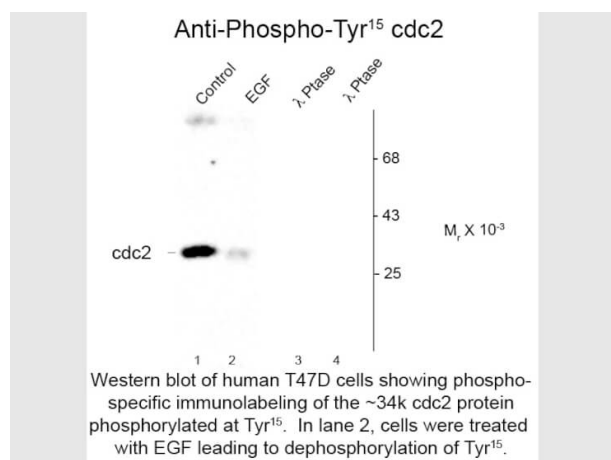
Physical State:	Liquid
Buffer:	0.01 M HEPES, 0.15 M Sodium Chloride, pH 7.5
Stabilizer:	0.1 mg/ml Bovine Serum Albumin (BSA) - IgG and Protease free, 50% (v/v) Glycerol

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. This product is stable at 4° C as an undiluted liquid. For extended storage, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images



Western Blot

Western Blot of Anti-cdc2 pT15 (Rabbit) Antibody. Lane 1: human T47D cells. Lane 2: human T47D cells with EGF (30 ng per ml for 30 min) caused dephosphorylation of the Tyr15 on cdc2. Lane 3: human T47D cells incubated in λ-Ptase (1200 units for 30 min). Lane 4: human T47D cells incubated in λ-Ptase (1200 units for 30 min). Load: 10 µg per lane. Primary antibody: cdc2 pT15 antibody at 1:400 for overnight at 4°C. Secondary antibody: IRDye800™ rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: ~34kDa/~34kDa for cdc2 phosphorylated at Tyr15. Other band(s): none.

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.