

CDK2 Antibody

Rabbit Polyclonal

Antigen Affinity Purified

Protein ID NP_001789.2

Catalog No. A301-812A

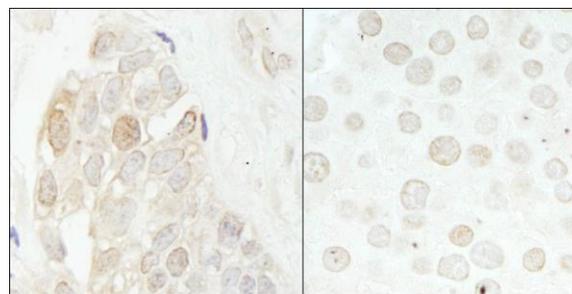
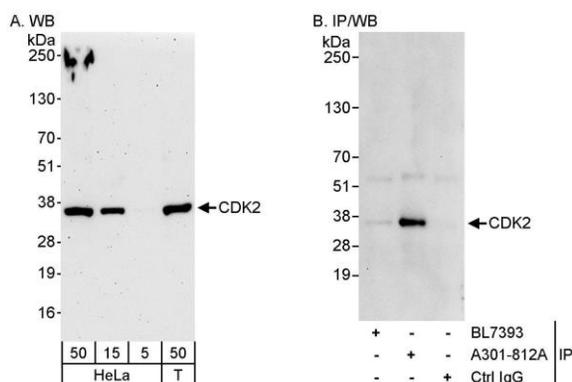
GeneID 1017

Lot No. A301-812A-1



APPLICATIONS	WB, IP, IHC						
SPECIES REACTIVITY	Human, Mouse						
PRESUMED REACTIVITY	Based on 100% sequence identity, this antibody is predicted to react with Rat, Bovine and Golden hamster						
AMOUNT	100 µl						
CONCENTRATION	1000 µg/ml						
STORAGE/SHELF LIFE	2 - 8° C / 1 year from date of receipt						
PHYSICAL STATE	Liquid						
BUFFER	Tris-citrate/phosphate buffer, pH 7 to 8 containing 0.09% Sodium Azide						
ISOTYPE	IgG						
ORIGIN	USA						
PRODUCTION PROCEDURES	<p>Antibody was affinity purified using an epitope specific to CDK2 immobilized on solid support.</p> <p>The epitope recognized by A301-812A maps to a region between residue 248 and 298 of human cyclin-dependent kinase 2 using the numbering given in entry NP_001789.2 (GeneID 1017).</p> <p>Immunoglobulin concentration was determined by extinction coefficient: absorbance at 280 nm of 1.4 equals 1.0 mg of IgG.</p>						
APPLICATIONS	<p>Centrifuge tube to remove product from lid. Optimal working dilutions should be determined experimentally by the investigator. Prepare working dilution immediately before use.</p> <table><tr><td>Western Blot</td><td>1:2,000 - 1:10,000</td></tr><tr><td>Immunoprecipitation</td><td>2 - 5 µg/mg lysate</td></tr><tr><td>Immunohistochemistry</td><td>1:500 - 1:2,000. Epitope retrieval with Tris-EDTA pH 9.0 is recommended for FFPE tissue sections.</td></tr></table>	Western Blot	1:2,000 - 1:10,000	Immunoprecipitation	2 - 5 µg/mg lysate	Immunohistochemistry	1:500 - 1:2,000. Epitope retrieval with Tris-EDTA pH 9.0 is recommended for FFPE tissue sections.
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APPLICATION NOTES	<p>Western blot of immunoprecipitates performed using Normal Pig Serum (Cat. No. S100-020), Goat anti-Rabbit Light Chain HRP Conjugate (Cat. No. A120-113P) and 4-20% SDS-PAGE (link to IP-western blot protocol in Additional Info section below).</p> <p>Western blot of lysates performed using standard western blot reagents and 4-20% SDS-PAGE.</p>						
ADDITIONAL INFO	<p>https://www.bethyl.com/product/A301-812A</p> <p>Use the link above to view SDS, a current list of citations, and other product specific information. IP-western blot protocol: https://www.bethyl.com/content/protocol_IP_WB</p>						

This document certifies that this product has met all of the quality control standards defined by Bethyl Laboratories, Inc.
Eric McIntush, PhD | Chief Scientific Officer Date: June 21, 2019



Detection of human CDK2 by western blot and immunoprecipitation. *Samples:* Whole cell lysate from HeLa (5, 15 and 50 µg for WB; 1 mg for IP, 20% of IP loaded) and HEK293T (T; 50 µg) cells. *Antibody:* Affinity purified rabbit anti-CDK2 antibody A301-812A used for WB at 0.1 µg/ml (A) and 1 µg/ml (B) and used for IP at 3 µg/mg lysate. CDK2 was also immunoprecipitated, albeit less efficiently, by rabbit anti-CDK2 antibody BL7393, which recognizes an upstream epitope. *Detection:* Chemiluminescence with exposure times of 3 minutes (A) and 30 seconds (B).

Detection of human and mouse CDK2 by immunohistochemistry. *Sample:* FFPE section of human breast carcinoma (left) and mouse renal cell carcinoma (right). *Antibody:* Affinity purified rabbit anti-CDK2 (Cat. No. A301-812A) used at a dilution of 1:1,000 (1 µg/ml) and 1:5,000 (0.2 µg/ml). *Detection:* DAB