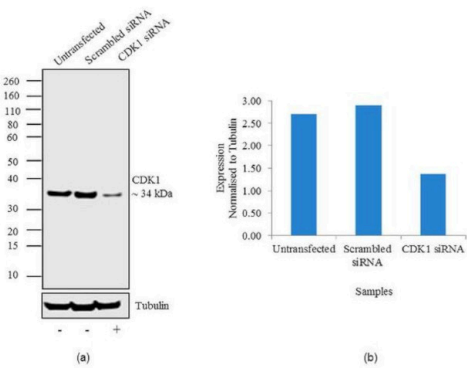


# CDK1 Monoclonal Antibody (A17)

Product Details	
Size	200 µg
Species Reactivity	Amphibian, Chicken, Human, Mouse, Rat, Xenopus
Published Species	Mouse, Human, Xenopus
Host/Isotype	Mouse / IgG2a, kappa
Class	Monoclonal
Type	Antibody
Clone	A17
Conjugate	Unconjugated
Immunogen	Recombinant protein consisting of the carboxy-terminal two-thirds of the Xenopus p34cdc2
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 7.4
Contains	0.1% sodium azide
Storage conditions	-20°C
RRID	AB_2533105

Applications	Tested Dilution	Publications
Western Blot (WB)	0.5-2 µg/mL	6 Publications
Immunohistochemistry (IHC)	-	2 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:10-1:50	-
Immunohistochemistry (Frozen) (IHC (F))	5-10 µg/mL	-
Immunocytochemistry (ICC/IF)	-	1 Publication
ELISA (ELISA)	0.1-1.0 µg/mL	-
Immunoprecipitation (IP)	5 µg	-
Miscellaneous PubMed (Misc)	-	1 Publication

Product Images For CDK1 Monoclonal Antibody (A17)

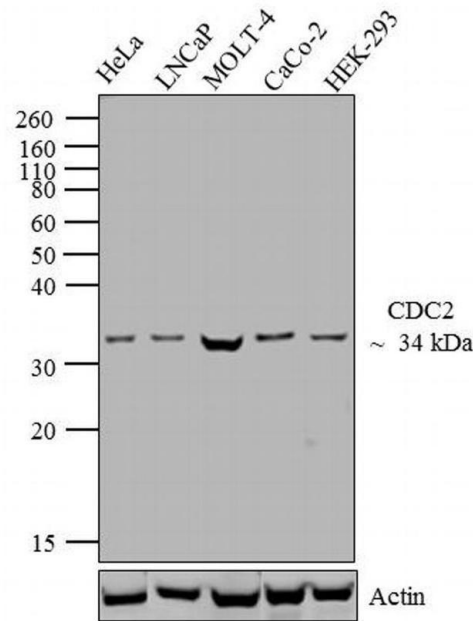


CDK1 Antibody (33-1800)

Antibody specificity was demonstrated by siRNA mediated knockdown of the target protein. HeLa cells were transfected with CDK1 siRNA and decrease in signal intensity was observed in western blot application (Fig a) using Anti-CDK1 Mouse Monoclonal Antibody (Product # 33-1800). Densitometric analysis of this western blot is shown in histogram (Fig b). {KD}

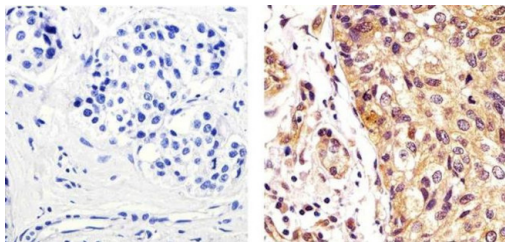
CDK1 Antibody (33-1800) in WB

Western blot analysis was performed on whole cell extracts (30 µg lysate) of HeLa (Lane 1), LNCaP (Lane 2), MOLT-4 (lane 3), CaCo-2 (lane 5) and HEK-293 (lane 6). The blots were probed with Anti-CDC2 Mouse Monoclonal Antibody (Product # 33-1800, 0.5-2 µg/mL) and detected by chemiluminescence using Goat anti-Mouse IgG (H+L) Secondary Antibody, HRP conjugate (Product # 62-6520, 1:4000 dilution). A 34 kDa band corresponding to CDC2 was observed across cell lines tested. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 12 % Bis-Tris gel (Product # NP0342BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with iBlot® 2 Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary and secondary Antibody following blocking with 5 % skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).



CDK1 Antibody (33-1800) in IHC (P)

Immunohistochemistry analysis of CDC2/CDK1 showing staining in the cytoplasm and membrane of paraffin-embedded human breast carcinoma tissue (right) compared to a negative control without primary antibody (left). To expose target proteins, antigen retrieval was performed using 10 mM sodium citrate (pH 6.0), microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H2O2-methanol for 15 min at room temperature, washed with ddH2O and PBS, and then probed with a CDC2/CDK1 mouse monoclonal Antibody (Product # 33-1800) diluted in 3% BSA-PBS at a dilution of 1:20 overnight at 4°C in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.



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Western Blot (6)

<p>Cancer cell international</p> <p><b>PADI3 plays an antitumor role via the Hsp90/CKS1 pathway in colon cancer.</b></p> <p>"Published figure using CDK1 monoclonal antibody (Product # 33-1800) in Western Blot"</p> <p>Authors: Chai Z,Wang L,Zheng Y,Liang N,Wang X,Zheng Y,Zhang Z,Zhao C,Zhu T,Liu C</p>	<p>Year</p> <p>2023</p> <p>Species</p> <p></p>
<p>Nature communications</p> <p><b>Pancreatic tumor eradication via selective Pin1 inhibition in cancer-associated fibroblasts and T lymphocytes engagement.</b></p> <p>"33-1800 was used in Western Blot experiments to formulate a DNA-barcoded micellular system (DMS) encapsulating the Pin1 inhibitor AG17724."</p> <p>Authors: Liu J,Wang Y,Mu C,Li M,Li K,Li S,Wu W,Du L,Zhang X,Li C,Peng W,Shen J,Liu Y,Yang D,Zhang K,Ning Q,Fu X,Zeng Y,Ni Y,Zhou Z,Liu Y,Hu Y,Zheng X,Wen T,Li Z,Liu Y</p>	<p>Year</p> <p>2022</p> <p>Species</p> <p>Mouse</p>

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Immunohistochemistry (2)

<p>The Journal of urology</p> <p><b>Abnormal expression of differentiation related proteins and proteoglycan core proteins in the urothelium of patients with interstitial cystitis.</b></p> <p>"33-1800 was used in Immunohistochemistry to determine the origins of the loss of the glycosaminoglycan layer and investigate more fully the altered differentiation of the urothelium in interstitial cystitis."</p> <p>Authors: Hauser PJ,Dozmorov MG,Bane BL,Slobodov G,Culkin DJ,Hurst RE</p>	<p>Year</p> <p>2008</p> <p>Species</p> <p>Human</p>
<p>The American journal of surgical pathology</p> <p><b>CDC2/CDK1 expression in esophageal adenocarcinoma and precursor lesions serves as a diagnostic and cancer progression marker and potential novel drug target.</b></p> <p>Authors: Hansel DE,Dhara S,Huang RC,Ashfaq R,Deasel M,Shimada Y,Bernstein HS,Harmon J,Brock M,Forastiere A, Washington MK,Maitra A,Montgomery E</p>	<p>Year</p> <p>2005</p> <p>Species</p> <p>Human</p>

More applications with references on thermofisher.com

- ICC/IF (1)
- Misc (1)

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