

# Product Datasheet

## Cell Cycle Regulation Antibody Pack

### NBP3-20212

Unit Size: 10 Vials

Storage is content dependent.

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**NBP3-20212****Cell Cycle Regulation Antibody Pack**

<b>Product Information</b>	
<b>Unit Size</b>	10 Vials
<b>Concentration</b>	Concentration of individual antibodies may be found on the vial label. If unlisted please contact technical services.
<b>Storage</b>	Storage is content dependent.
<b>Product Description</b>	
<b>Description</b>	This pack contains 1 vial each of: AF4654-SP (25 ug), AF4654-SP (25 ug), MAB2256-SP (0.025 mg), NBP2-24695SS (25 ug), MAB6570-SP (25 ug), AF1047-SP (25 ug), AF5254-SP (25 ug), AF7746-SP (1 mL), HAF008 (1 mL), HAF007 (1 mL).
<b>Species</b>	Human
<b>Reactivity Notes</b>	Antibodies in this pack are validated for use in the following species: AF4654: Human, Mouse, Rat MAB2256: Human, Mouse, Rat NBP2-24695: Human MAB6570: Human AF1047: Human AF5254: Human, Mouse AF7746: Human HAF008: Rabbit HAF007: Mouse HAF017: Goat
<b>Immunogen</b>	See individual datasheets.
<b>Kit Components</b>	AF4654-SP, MAB2256-SP, NBP2-24695SS, MAB6570-SP, AF1047-SP, AF5254-SP, AF7746-SP, HAF008: Goat anti-Rabbit IgG Secondary Antibody [HRP], HAF007: Goat anti-Mouse IgG Secondary Antibody [HRP], HAF017: Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunohistochemistry
<b>Recommended Dilutions</b>	Western Blot, Immunohistochemistry
<b>Application Notes</b>	Antibodies in this pack are validated for the following applications:  AF4654: Immunocytochemistry, Immunohistochemistry, Western Blot MAB2256: CyTOF-ready, Intracellular Staining by Flow Cytometry, Western Blot NBP2-24695: Immunohistochemistry, Immunohistochemistry-Paraffin, Western Blot MAB6570: Immunohistochemistry, Western Blot AF1047: CyTOF-ready, Immunocytochemistry, Immunohistochemistry, Immunoprecipitation, Intracellular Staining by Flow Cytometry, Simple Western, Western Blot AF5254: Immunocytochemistry, Western Blot AF7746: Western Blot HAF008: Immunohistochemistry, Western Blot HAF007: Immunohistochemistry, Western Blot HAF017: Western Blot



## Images

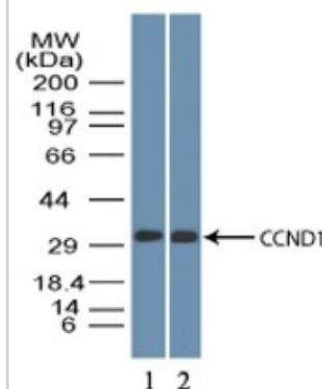
Western blot shows lysates of HEK293 human embryonic kidney cell line, HeLa human cervical epithelial carcinoma cell line, K562 human chronic myelogenous leukemia cell line, and Balb/3T3 mouse embryonic fibroblast cell line. PVDF membrane was probed with 1 µg/mL Goat Anti-Human/Mouse CDK2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4654) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (HAF017). For additional reference, recombinant human CDK2, CDK4, and CDK6 (5 ng/lane) were included. A specific band for CDK2 was detected at approximately 34 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.



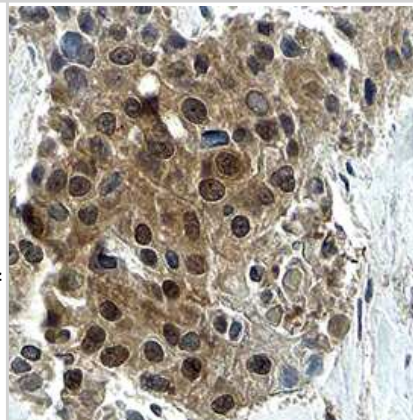
Western blot shows lysates of NRK rat normal kidney cell line, U2OS human osteosarcoma cell line, and Balb/3T3 mouse embryonic fibroblast cell line. PVDF membrane was probed with 0.2 µg/mL of Mouse Anti-Human/Mouse/Rat p27/Kip1 Monoclonal Antibody (Catalog # MAB2256) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for p27/Kip1 at approximately 30 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.



Western blot shows lysates of 1) mouse C2C12 and 2) mouse NIH 3T3 lysate. PVDF membrane was probed with 5 µg/mL of Rabbit Anti-Human Cyclin D1 Polyclonal Antibody (Catalog # NBP2-24695) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody. This experiment was conducted under reducing conditions. PicoText ECL substrate solution were used for this test.



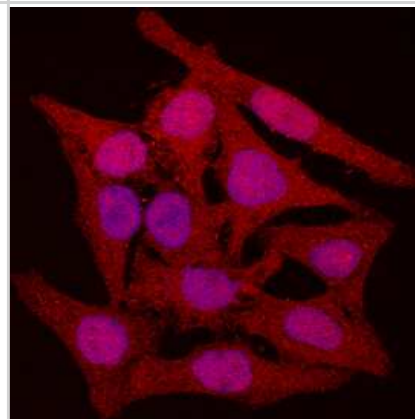
Cyclin D3 was detected in immersion fixed paraffin-embedded sections of human breast cancer tissue using Human Cyclin D3 Monoclonal Antibody (Catalog # MAB6570) at 15 µg/mL overnight at 4 °C. Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). Specific staining was localized to nuclei and cytoplasm. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.



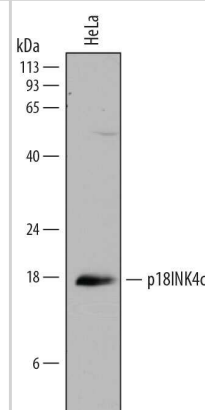
Western blot shows lysates of MCF-7 human breast cancer cell line untreated (-) or treated (+) with 1  $\mu$ M camptothecin (CPT) for 16 hours. PVDF membrane was probed with 0.5  $\mu$ g/mL of Goat Anti-Human p21/CIP1/CDKN1A Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1047), followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF017). A specific band was detected for p21/CIP1/CDKN1A at approximately 21 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.



CDK4 was detected in immersion fixed HeLa human cervical epithelial carcinoma cell line using Goat Anti-Human/Mouse CDK4 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5254) at 10  $\mu$ g/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red; NL001) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm and nuclei. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.



Western blot shows lysates of HeLa human cervical epithelial carcinoma cell line. PVDF membrane was probed with 0.5  $\mu$ g/mL of Goat Anti-Human p18INK4c/CDKN2C Antigen Affinity-purified Polyclonal Antibody (Catalog # AF7746) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF017). A specific band was detected for p18INK4c/CDKN2C at approximately 18 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.





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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Antibody Packs are guaranteed for 1 year from date of receipt.

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