

DESCRIPTION

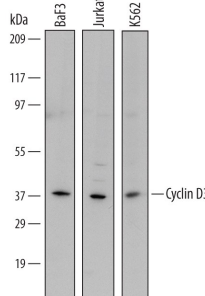
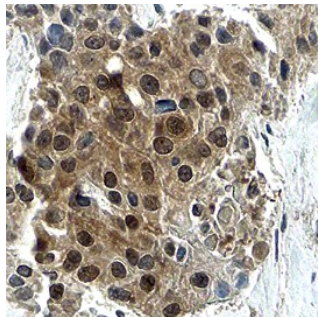
Species Reactivity	Human
Specificity	Detects human Cyclin D3 in direct ELISAs. In direct ELISAs and Western blots, approximately 5% cross-reactivity with recombinant human (rh) Cyclin B1 and D1 is observed. No cross-reactivity with rhCyclin A1, A2, B2, C, D2, E1, or E2 is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 588726
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E.coli</i> -derived recombinant human Cyclin D3 Met1-Leu292 Accession # P30281
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below
Immunohistochemistry	8-25 µg/mL	See Below

DATA

<p>Western Blot</p>  <p>Detection of Human and Mouse Cyclin D3 by Western Blot. Western blot shows lysates of BaF3 mouse pro-B cell line, Jurkat human acute T cell leukemia cell line, and K562 human chronic myelogenous leukemia cell line. PVDF Membrane was probed with 1 µg/mL of Human Cyclin D3 Monoclonal Antibody (Catalog # MAB6570) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for Cyclin D3 at approximately 37 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p>Immunohistochemistry</p>  <p>Cyclin D3 in Human Breast Cancer Tissue. 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.</p>
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PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Cyclin D3 is a 37 kDa cell cycle regulatory protein whose expression level and nuclear/cytoplasmic distribution are tightly regulated in synchrony with the cell cycle. Cyclin D3 complexes containing Cdk4 or Cdk6 induce phosphorylation of Rb, a requirement for progression through the G1/S cell cycle transition. Human Cyclin D3 shares 95% and 93% amino acid sequence identity with mouse and rat Cyclin D3, respectively.