

**DESCRIPTION**

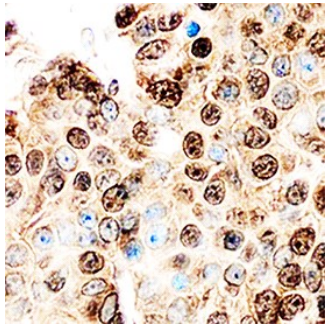
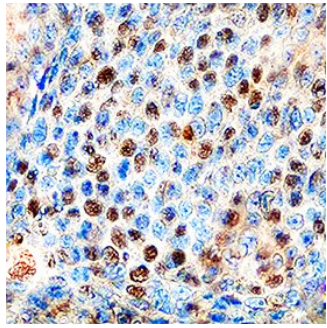
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human Cyclin E2 in direct ELISAs.
<b>Source</b>	Monoclonal Mouse IgG <sub>2B</sub> Clone # 718916
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human Cyclin E2 Met1-Gln140 Accession # O96020
<b>Formulation</b>	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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Immunohistochemistry</b>	8-25 µg/mL	See Below

**DATA**

<p><b>Immunohistochemistry</b></p>  <p><b>Cyclin E2 in Human Breast.</b> Cyclin E2 was detected in immersion fixed paraffin-embedded sections of human breast using Mouse Anti-Human Cyclin E2 Monoclonal Antibody (Catalog # MAB7444) 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 &amp; Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). Specific staining was localized to nuclei in epithelial cells. View our protocol for <a href="#">Chromogenic IHC Staining of Paraffin-embedded Tissue Sections</a>.</p>	<p><b>Immunohistochemistry</b></p>  <p><b>Cyclin E2 in Human Cervical Cancer Tissue.</b> Cyclin E2 was detected in immersion fixed paraffin-embedded sections of human cervical cancer tissue using Mouse Anti-Human Cyclin E2 Monoclonal Antibody (Catalog # MAB7444) at 1.2 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Mouse HRP-DAB Cell &amp; Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). Specific staining was localized to nuclei. View our protocol for <a href="#">Chromogenic IHC Staining of Paraffin-embedded Tissue Sections</a>.</p>
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**PREPARATION AND STORAGE**

<b>Reconstitution</b>	Sterile PBS to a final concentration of 0.5 mg/mL.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

**BACKGROUND**

Cyclin E2, also known as CCNE2, is an approximately 45-50 kDa protein that associates with the kinase Cdk2. This complex phosphorylates multiple substrates involved in regulation of cell cycle progression and the initiation of DNA replication. Cyclin E2 is required for G1/S phase progression and cell cycle reentry from G0 phase. Cyclin E2 most highly expressed in testis, thymus, and brain and is frequently upregulated in cancer. Cyclin E2 contains two cyclin box folds (amino acids 141-231 and amino acids 241-361). An alternate splice form lacks 45 amino acids (aa) within the first cyclin box fold. Within aa 1-140, human Cyclin E2 shares 90% aa sequence identity with mouse and rat Cyclin E2.