

#### DESCRIPTION

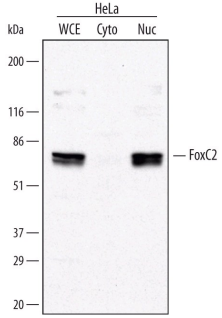
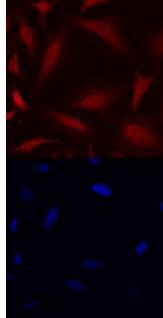
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects endogenous human FoxC2 in Western blots.
<b>Source</b>	Polyclonal Sheep IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human FoxC2 Gly415-Tyr501 Accession # Q99958
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.

#### 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>Western Blot</b>	1 µg/mL	See Below
<b>Immunocytochemistry</b>	5-15 µg/mL	See Below

#### DATA

<p><b>Western Blot</b></p>  <p><b>Detection of Human FoxC2 by Western Blot.</b> Western blot shows lysates of HeLa human cervical epithelial carcinoma cell line. Gels were loaded with 30 µg of whole cell lysate (WCL), 20 µg of cytoplasmic (Cyto), and 10 µg of nuclear extracts (Nuc). PVDF membrane was probed with 1 µg/mL Human FoxC2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5044) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band for FoxC2 was detected at approximately 70 kDa (as indicated). This experiment was conducted under reducing conditions and using <i>Immunoblot Buffer Group 1</i>.</p>	<p><b>Immunocytochemistry</b></p>  <p><b>FoxC2 in HeLa Human Cell Line.</b> FoxC2 was detected in immersion fixed HeLa human cervical epithelial carcinoma cell line using Human FoxC2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5044) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Sheep IgG Secondary Antibody (red, upper panel; Catalog # NL010) and counterstained with DAPI (blue, lower panel). Specific staining was localized to cytoplasm and nuclei. View our protocol for <a href="#">Fluorescent ICC Staining of Cells on Coverslips</a>.</p>
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#### PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<p><b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b></p> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month from date of receipt, 2 to 8 °C, reconstituted.</li> <li>● 6 months from date of receipt, -20 to -70 °C, reconstituted.</li> </ul>

#### BACKGROUND

FoxC2 belongs to a large family of nuclear transcription factor proteins sharing a common forkhead/winged helix DNA binding domain. FoxC2 is implicated in epithelial to mesenchymal transition, human lymphedema-distichiasis syndrome, and tumor metastasis. Experiments in mice indicate that FoxC2 controls adipocyte morphogenesis and null mice show defects in axial and cranial skeletogenesis, as well. In addition the transcriptional activity of FoxC2 influences expression of cytokine receptors such as CXCR4.