

**RABBIT ANTI-CDC4  
POLYCLONAL ANTIBODY**

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<b>CATALOG NUMBER:</b>	AB10620	<b>QUANTITY:</b>	100 µg
<b>LOT NUMBER:</b>		<b>CONCENTRATION:</b>	0.25 mg/mL
<b>HOST</b>	Rabbit		
<b>BACKGROUND:</b>	<p>The F-box protein family is characterized by an approximately 40 amino acid motif, the F-box. F-box proteins are divided into 3 classes: FBWs containing WD-40 domains, FBLs containing leucine-rich repeats, and FBXs containing either different protein-protein interaction modules or no recognizable motifs. They constitute one of the four subunits of ubiquitin protein ligase complex called SCFs (SKP1-cullin-F-box), which function in phosphorylation-dependent ubiquitination.</p> <p>Cdc4 is one member of this family, which is also known as AGO, FBW7, FBX30 or SEL10. CDC4 binds directly to cyclin E and targets cyclin E for ubiquitin-mediated degradation. Cdc4 proteins of amino acid lengths varying from 553 aa to 707 aa in length have been reported. Cdc4 is an inhibitor of Notch signaling that targets Notch for ubiquitin-mediated degradation after a nuclear phosphorylation event.<sup>5,6</sup> Cdc4 interacts with presenilin 1, facilitates its ubiquitination, and alters A-beta peptide production. Thus, it may be important for Alzheimer's disease. Mutations of the <i>CDC4</i> gene are detected in ovarian and breast cancer cell lines and the <i>CDC4</i> gene may also be involved in the pathogenesis of human pancreatic and endometrial cancers.</p>		
<b>SPECIFICITY:</b>	Recognizes CDC4 in western blotting.		
<b>IMMUNOGEN:</b>	Synthetic peptide derived from an internal region of the human and mouse Cdc4 (archipelago (AGO), F-box/WD-repeat protein 7, F-box and WD-40 domain protein 7, F-box protein FBW7, FBX30 and SEL-10).		
<b>APPLICATIONS:</b>	Western Blotting: 1-3 µg/mL Immunoprecipitation: 7 µg/reaction <i>Optimal working dilutions must be determined by end user.</i>		
<b>SPECIES REACTIVITY:</b>	Reactivity has been confirmed with human T47D, U2-OS, MCF-7, HepG2 and HeLa cell lysates.		
<b>FORMAT:</b>	This antibody is epitope-affinity purified from rabbit antiserum.		
<b>PRESENTATION</b>	This polyclonal antibody is supplied in 400 µL of phosphate buffered saline (pH 7.4) containing 0.1% sodium azide.		
<b>STORAGE/HANDLING:</b>	Store at -20°C in undiluted aliquots for 1 year from date of shipment.		

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**REFERENCES:** Cenciarelli C, et al. *Curr Biol* 9:1177-1179, 1999.  
Winston JT, et al. *Curr Biol* 9:1180-1182, 1999.

**Important Note:** *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200  $\mu$ L or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

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