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Datasheet for 600-401-971

Cyclin E2 Antibody

Overview

Description:	Anti-Cyclin E2 (RABBIT) Antibody - 600-401-971
Item No.:	600-401-971
Size:	100 µg
Applications:	ELISA, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

Background:	This antibody is designed, produced, and validated as part of a collaboration between Rockland and the National Cancer Institute (NCI) and is suitable for Cancer, Immunology and Nuclear Signaling research. Cyclin E was first identified by its ability to rescue growth of yeast deficient in G1 Cyclins, indicating a role in G1 or G1/S transitions. Over-expression of Cyclin E has been observed in a variety of human tumors. Multiple isoforms of Cyclin E are expressed in tumors but not in normal tissues, suggesting a post-transcriptional regulation of Cyclin E. Cyclin E2 associates with Cdk2 in a functional kinase complex that is inhibited by both p27Kip1 and p21Cip1. The catalytic activity associated with Cyclin E2 complexes is cell cycle regulated and peaks at the G1/S transition. Unlike Cyclin E1, which is expressed in most proliferating normal and tumor cells, Cyclin E2 levels were low to undetectable in non-transformed cells and increased significantly in tumor-derived cells.
Synonyms:	rabbit anti-Cyclin E2 antibody, G1/S-specific cyclin-E2, CCNE2
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	Ccne2
Reactivity:	Human, Mouse
Immunogen Type:	Conjugated Peptide

Immunogen:	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to amino acids at the carboxyl terminus of the Cyclin E2 protein.
Purity/Specificity:	This affinity purified antibody is directed against mouse Cyclin E2 protein. The product was affinity purified from monospecific antiserum by immunoaffinity chromatography. A BLAST analysis was used to suggest cross-reactivity with Cyclin E2 protein from human based on 100% homology with the immunizing sequence. Cross-reactivity with Cyclin E2 from rat is also predicted based on a 91% homology with the immunizing sequence. Reactivity against homologues from other sources is not known.
Relevant Links:	• UniProtKB - Q9Z238 • NCBI - 3769612 • GeneID - 12448

Application Details

Tested Applications:	ELISA, WB
Application Note:	This affinity purified antibody has been tested for use in ELISA and western blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 50 kDa in size corresponding to Cyclin E2 protein by western blotting in the appropriate cell lysate or extract.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:20,000 - 1:85,000
IP:	1:100
WB:	1:200 - 1:2,000

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.17 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images

Western Blot
Western blot using Rockland's affinity purified anti-Cyclin E2 antibody shows specific detection of Cyclin E2. Cell extracts over-expressing mouse Cyclin E1 (lane 1) and Cyclin E2 (lane 2) were electrophoresed, transferred to nitrocellulose, and probed with the anti-Cyclin E2 antibody. The affinity purified antibody also detects endogenous Cyclin E2 in Skp2-/- MEF cells. (data not shown). Personal Communication, Philipp Kaldis, CCR-NCI, Frederick, MD.

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