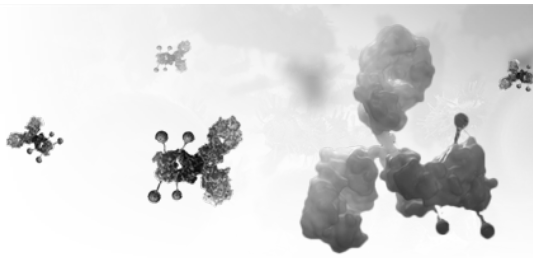

Anti-CDK2 (C-terminal) polyclonal antibody (CPBT-67437RC)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	This product detects an epitope within the C-terminal region of human cyclin dependent kinase 2 (Cdk2), a protein kinase which is essential for G1-S phase transition in the cell cycle. Cdk2 forms the catalytic subunit of the cyclin-dependent protein kinase complex, which also consists of a number of regulatory subunits, including cyclin A or cyclin E, and the Cdk inhibitors p21/WAF1 and p27/kip1. When activated, Cdk2 phosphorylates the retinoblastoma protein, leading to the activation of the transcription factor E2F and cell cycle progression. Cdk2 can be upregulated in tumours, including adenomas and breast cancers, particularly in conjunction to cyclin overexpression. Western Blotting detects a band of approximately 33kDa in human tissue.
Specificity	Cdk2
Immunogen	Cdk2 peptide corresponding to the C-terminus of the human protein conjugated to Keyhole Limpet Hemocyanin (KLH).
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Conjugate	Unconjugated
Applications	ELISA; IP; IHC-P; WB
Format	Serum - liquid
Size	50 µl
Preservative	0.01% Sodium Azide

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221

Storage	in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

GENE INFORMATION

Gene Name	CDK2 cyclin-dependent kinase 2 [Homo sapiens (human)]
Official Symbol	CDK2
Synonyms	CDK2; cyclin-dependent kinase 2; CDKN2; p33(CDK2); p33 protein kinase; cdc2-related protein kinase; cell division protein kinase 2; CDK2;
Entrez Gene ID	1017
Protein Refseq	NP_001277159
UniProt ID	P24941
Chromosome Location	12q13
Pathway	APC/C-mediated degradation of cell cycle proteins; Activation of ATR in response to replication stress; Activation of the pre-replicative complex; B Cell Receptor Signaling Pathway; BARD1 signaling events; CDK-mediated phosphorylation and removal of Cdc6; Cell Cycle; Cell Cycle Checkpoints;
Function	ATP binding; cyclin binding; cyclin-dependent protein serine/threonine kinase activity; contributes_to histone kinase activity; metal ion binding; protein binding;

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