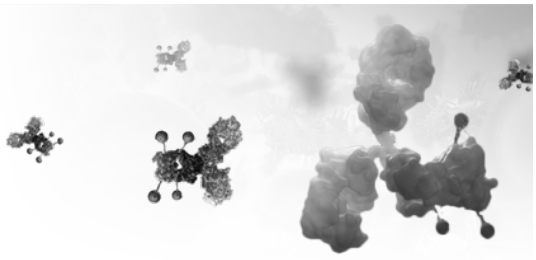

Human CDK2 peptide (DAG-P1469)

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

PRODUCT INFORMATION

Antigen Description	This gene encodes a member of a family of serine/threonine protein kinases that participate in cell cycle regulation. The encoded protein is the catalytic subunit of the cyclin-dependent protein kinase complex, which regulates progression through the cell cycle. Activity of this protein is especially critical during the G1 to S phase transition. This protein associates with and regulated by other subunits of the complex including cyclin A or E, CDK inhibitor p21Cip1 (CDKN1A), and p27Kip1 (CDKN1B). Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2014]
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. CDC2/CDKX subfamily.Contains 1 protein kinase domain.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

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;

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Entrez Gene ID	1017
mRNA Refseq	NM_001290230.1
Protein Refseq	NP_001277159.1
UniProt ID	P24941
Chromosome Location	12q13
Pathway	APC/C-mediated degradation of cell cycle proteins, organism-specific biosystem; Activation of ATR in response to replication stress, organism-specific biosystem; Activation of the pre-replicative complex, organism-specific biosystem; B Cell Receptor Signaling Pathway, organism-specific biosystem; BARD1 signaling events, organism-specific biosystem; CDK-mediated phosphorylation and removal of Cdc6, organism-specific biosystem; Cell Cycle, organism-specific biosystem; Cell Cycle Checkpoints, organ
Function	ATP binding; cyclin binding; cyclin-dependent protein serine/threonine kinase activity; cyclin-dependent protein serine/threonine kinase activity; contributes_to histone kinase activity; metal ion binding; protein binding;

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