Recombinant Human CCNE1

Cat. No. CCNE1-27521TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Cyclin E1 (amino acids 1-410) with N-terminal proprietary tag, 73kDa inclusive of tag.
Species	Human
Source	Sf9 Cells
ProteinLength	410 amino acids
Description	The protein encoded by this gene belongs to the highly conserved cyclin family, whose members are characterized by a dramatic periodicity in protein abundance through the cell cycle. Cyclins function as regulators of CDK kinases. Different cyclins exhibit distinct expression and degradation patterns which contribute to the temporal coordination of each mitotic event. This cyclin forms a complex with and functions as a regulatory subunit of CDK2, whose activity is required for cell cycle G1/S transition. This protein accumulates at the G1-S phase boundary and is degraded as cells progress through S phase. Overexpression of this gene has been observed in many tumors, which results in chromosome instability, and thus may contribute to tumorigenesis. This protein was found to associate with, and be involved in, the phosphorylation of NPAT protein (nuclear protein mapped to the ATM locus), which participates in cell-cycle regulated histone gene expression and plays a critical role in promoting cell-cycle progression in the absence of pRB. Two alternatively spliced transcript variants of this gene, which encode distinct isoforms, have been described. Two additional splice variants were reported but detailed nucleotide sequence

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	information is not yet available.
Molecular Weight	73.000kDa inclusive of tags
Tissue specificity	Highly expressed in testis and placenta. Low levels in bronchial epithelial cells.
Form	Liquid
Purity	by SDS-PAGE
Storage buffer	pH: 7.50Constituents:25% Glycerol, 0.79% Tris HCl, 0.88% Sodium chloride, 0.31% Glutathione, 0.003% EDTA, 0.003% DTT, 0.002% PMSF
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequence Similarities	Belongs to the cyclin family. Cyclin E subfamily.

GENE INFORMATION

Gene Name	CCNE1 cyclin E1 [Homo sapiens]
Official Symbol	CCNE1
Synonyms	CCNE1; cyclin E1; CCNE; G1/S-specific cyclin-E1; cyclin Es; cyclin Et;
Gene ID	898
mRNA Refseq	NM_001238
Protein Refseq	NP_001229

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MIM	123837
Uniprot ID	P24864
Chromosome Location	19q12
Pathway	Androgen Receptor Signaling Pathway, organism-specific biosystem; B Cell Receptor Signaling Pathway, organism-specific biosystem; BARD1 signaling events, organism-specific biosystem; Cell Cycle Checkpoints, organism-specific biosystem; Cell Cycle, Mitotic, organism-specific biosystem;
Function	androgen receptor binding; cyclin-dependent protein kinase regulator activity; kinase activity; protein binding; protein kinase binding;

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