Cyclin E1 (CCNE1) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Cyclin E1 (CCNE1), Polyclonal Antibody
Full Product Name	Cyclin E1 (phospho-Thr62) rabbit pAb
Product Gene Name	anti-CCNE1 antibody
Product Synonym Gene Name	CCNE
Product Synonym Names	G1/S-specific cyclin-E1
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Purity/Purification	The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.
Preparation and Storage	Store at -20 degree C for ~1 year
Molecular Weight	47,077 Da
Chromosome Location	Chromosome: 19; NC_000019.9 (30302901..30315215). Location: 19q12
OMIM	123837
3D Structure	ModBase 3D Structure for P24864
Product Categories/Family for anti-CCNE1 antibody	Primary Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CCNE1 antibody	Western Blot (WB)
Application Notes for anti-CCNE1 antibody	WB: 1:1000-2000
Related Product Information for anti-CCNE1 antibody	cyclin E1 (CCNE1) Homo sapiens 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.
Other Notes	Small volumes of anti-CCNE1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CCNE1 purchase	MBS8599959 is an antibody targeting CCNE1. Also known as Cyclin E1 (phospho-Thr62) rabbit pAb. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CCNE1. It may not necessarily be applicable to this product.

NCBI GI #	17318559
NCBI GeneID	898
NCBI Accession #	NP_001229.1
UniProt Primary Accession #	P24864
UniProt Secondary Accession #	Q14091; Q8NFG1; Q92501; Q9UD21; A8K684
UniProt Related Accession #	P24864
GenBank Nucleotide #	NM_001238.2
NCBI Official Full Name	G1/S-specific cyclin-E1
NCBI Official Synonym Full Names	cyclin E1
NCBI Official Symbol	CCNE1
NCBI Official Synonym Symbols	CCNE
UniProt Protein Name	G1/S-specific cyclin-E1
Protein Family	G1/S-specific cyclin
UniProt Gene Name	CCNE1
UniProt Synonym Gene Names	CCNE
UniProt Entry Name	CCNE1_HUMAN
NCBI Protein Information	G1/S-specific cyclin-E1; cyclin Es; cyclin Et
NCBI Summary for CCNE1	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 information is not yet available. [provided by RefSeq, Jul 2008]

UniProt Comments for CCNE1	CCNE1: a member of 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. Forms a complex with and functions as a regulatory subunit of CDK2, whose activity is required for cell cycle G1/S transition. Accumulates at the G1-S phase boundary and is degraded as cells progress through S phase. Two alternatively spliced isoforms have been described. Protein type: Nuclear receptor co-regulator; Activator; Cell cycle regulation Chromosomal Location of Human Ortholog: 19q12 Cellular Component: nucleoplasm; cyclin-dependent protein kinase holoenzyme complex; nucleus; cytosol Molecular Function: protein binding; androgen receptor binding; transcription coactivator activity; kinase activity; cyclin-dependent protein kinase regulator activity; protein kinase binding Biological Process: G1/S-specific transcription in mitotic cell cycle; Wnt receptor signaling pathway; DNA replication initiation; cell division; regulation of cell cycle; positive regulation of transcription, DNA-dependent; androgen receptor signaling pathway; mitotic cell cycle; regulation of protein kinase activity; protein amino acid phosphorylation; G1/S transition of mitotic cell cycle
Research Articles on CCNE1	**1.** This study aimed to explore the effects of single nucleotide polymorphisms in CDK2 and CCNE1 on breast cancer risk, progression and survival in a Chinese Han population.
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