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[KD]Cyclin E1 Rabbit mAb

Catalog # AP75313

Product Information

Application	WB, FC
Primary Accession	P24864
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Purification	Affinity Purified
Calculated MW	47077

Additional Information

Gene ID	898
Other Names	CCNE1
Dilution	WB~~1:1000-1:5000 FC~~1:50-1:100
Format	Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Protein Information

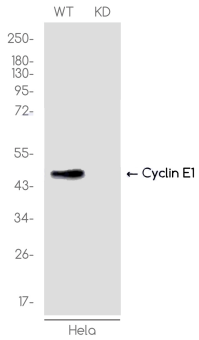
Name	CCNE1
Synonyms	CCNE
Function	Essential for the control of the cell cycle at the G1/S (start) transition.
Cellular Location	Nucleus.
Tissue Location	Highly expressed in testis and placenta. Low levels in bronchial epithelial cells.

Background

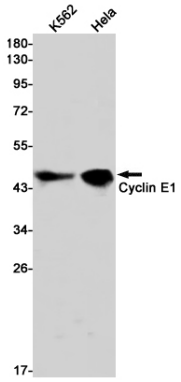
The protein encoded by this gene belongs to the highly conserved cyclin family, whose members are characterized by a dramatic periodicity in protein abundance through the cell cycle. Cyclins function as regulators of CDK kinases. Different cyclins exhibit distinct expression and degradation patterns 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.

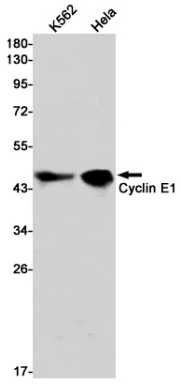
Images



Western blot analysis of Cyclin E1 in HeLa(WT) and Cyclin E1-Knockdown HeLa(KD) using Cyclin E1 antibody.



Western blot analysis of Cyclin E1 in K562, Hela lysates using Cyclin E1 antibody.



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