ELK Biotechnology

Cyclin E1 (phospho Thr395) rabbit pAb

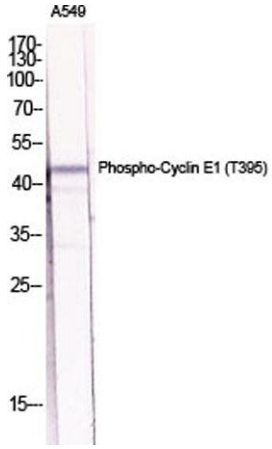
Cat No.:ES1295

For research use only

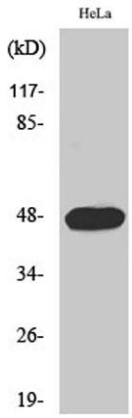
Overview

Product Name	Cyclin E1 (phospho Thr395) rabbit pAb
Host species	Rabbit
Applications	WB;IHC;IF;ELISA
Species Cross-Reactivity	Human;Rat;Mouse;
Recommended dilutions	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/10000. Not yet tested in other applications.
Immunogen	The antiserum was produced against synthesized peptide derived from human Cyclin E1 around the phosphorylation site of Thr395. AA range:361-410
Specificity	Phospho-Cyclin E1 (T395) Polyclonal Antibody detects endogenous levels of Cyclin E1 protein only when phosphorylated at T395.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	G1/S-specific cyclin-E1
Gene Name	CCNE1
Cellular localization	Nucleus .
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal
Concentration	1 mg/ml
Observed band	48kD
Human Gene ID	898
Human Swiss-Prot Number	P24864
Alternative Names	CCNE1; CCNE; G1/S-specific cyclin-E1
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

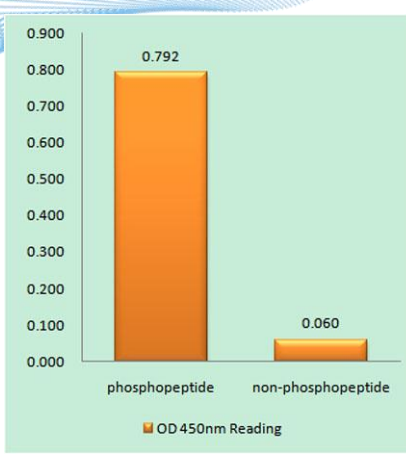
distinct expression and degradation patterns which contribute to the temporal coordination of each mitotic event. This cyclin forms a complex with and functions as a regulatory subunit of CDK2, whose activity is required for cell cycle G1/S transition. This protein accumulates at the G1-S phase boundary 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



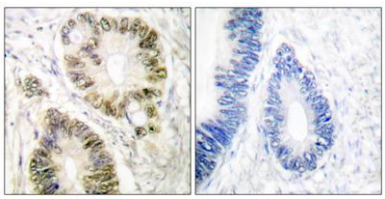
Western Blot analysis of various cells using Phospho-Cyclin E1 (T395) Polyclonal Antibody diluted at 1:2000



Western Blot analysis of HeLa cells using Phospho-Cyclin E1 (T395) Polyclonal Antibody diluted at 1:2000



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using Cyclin E1 (Phospho-Thr395) Antibody



Immunohistochemistry analysis of paraffin-embedded human colon carcinoma, using Cyclin E1 (Phospho-Thr395) Antibody. The picture on the right is blocked with the phospho peptide.

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