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Phospho-Cyclin E1 (Thr77) Antibody

Rabbit Polyclonal Antibody
Catalog # ABV11848

Product Information

Application	WB, IHC, IF, ICC
Primary Accession	P24864
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	47077

Additional Information

Gene ID	898
Positive Control	WB: HEK293; IHC: human heart tissue; IFC: HEK293 cells
Application & Usage	WB; 1:500 – 1:2000, IHC; 1:50 – 1:200, IF/IC; 1:50 – 1:100
Alias Symbol	CCNE1
Other Names	CCNE; G1/S-specific cyclin-E1
Appearance	Colorless liquid
Formulation	In 0.42% Potassium phosphate; 0.87% Sodium chloride; pH 7.3; 30% glycerol and 0.01% sodium azide
Reconstitution & Storage	-20 °C
Background Descriptions	
Precautions	Phospho-Cyclin E1 (Thr77) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

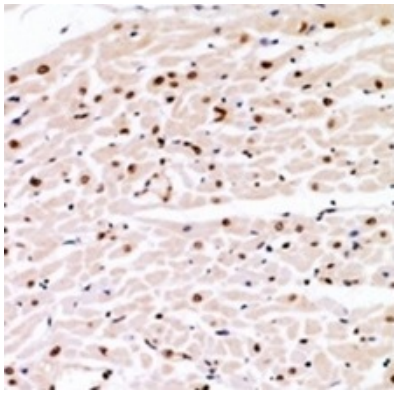
Protein Information

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.

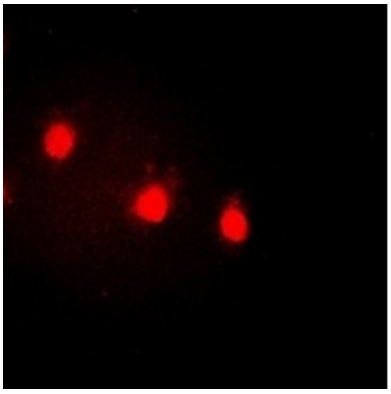
Background

Cyclin E1 is a regulatory subunit of the CDK2 kinase. It is central for the regulation of the G1/S transition and its abundance is tightly regulated throughout the cell cycle via ubiquitination. Cyclin E has been the subject of intense study in relation to tumorigenesis and cancer management and prognosis. Multiple isoforms of Cyclin E are only expressed in tumors but not in normal tissue, suggesting a post transcriptional regulation of Cyclin E. In vitro analyses indicated that these truncated variant isoforms of Cyclin E are able to phosphorylate histone H1. Alterations in the Cyclin E protein have been implicated as indicators of worse prognosis in various cancers.

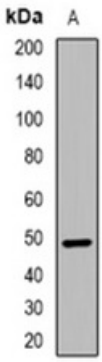
Images



Immunohistochemical analysis of Cyclin E1(pT77) staining in H.heart formalin fixed paraffin embedded tissue section.



Immunofluorescent analysis of Cyclin E1 (pT77) staining in HEK293T cells.



Western blot analysis of Cyclin E1(pT77) expression in HEK293 LPS-treated (A) whole cell lysates.