

## Basic Information

<b>Product Name</b>	Anti-Cyclin E1/CCNE1 (Phospho-T77) Antibody (Clone#GHC-3)	
<b>Gene Name</b>	CCNE1	
<b>Source</b>	Rabbit	
<b>Clonality</b>	Monoclonal	
<b>Isotype</b>	IgG	
<b>Species Reactivity</b>	human	
<b>Tested Application</b>	WB, IHC, ICC/IF	
<b>Contents</b>	500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide, 0.4-0.5 mg/ml BSA and 50% glycerol.	
<b>Immunogen</b>	A synthesized peptide derived from human Cyclin E1	
<b>Concentration</b>	500 ug/ml	
<b>Purification</b>	Affinity-chromatography	
<b>Observed MW</b>	47 kDa	
<b>Dilution Ratios</b>	Western blot (WB):	1:500-2000
	Immunohistochemistry (IHC):	1:50-200
	Immunocytochemistry/Immunofluorescence (ICC/IF):	1:50-200

## Storage

12 months from date of receipt, -20°C as supplied.

## Background Information

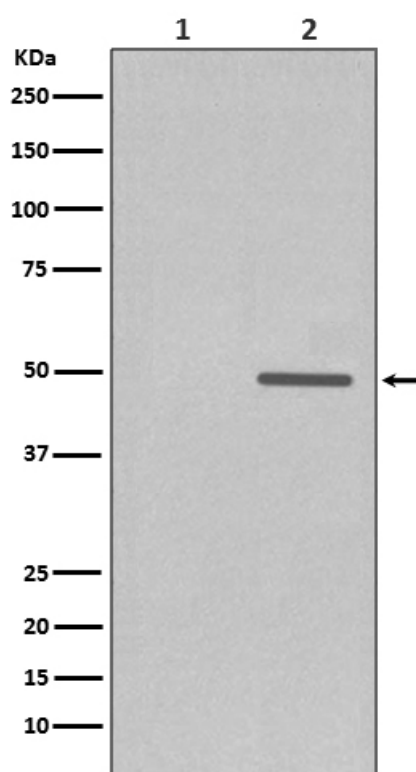
G1/S-specific cyclin-E1 is a protein that in humans is encoded by the CCNE1 gene. It is mapped to 19q12. The protein encoded by this gene belongs to the highly conserved cyclin family, whose members are characterized by a dramatic periodicity in protein abundance through the cell cycle. Cyclins function 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.

## Reference

Anti-Cyclin E1/CCNE1 (Phospho-T77) Antibody (Clone#GHC-3)被引用在1文献中。

## Selected Validation Data



Western blot analysis of Phospho-Cyclin E1 (T77) expression in (1) JAR cell treated with Lambda Phosphatase lysate; (2) JAR cell lysate.