

Rabbit anti-Human Cyclin E1 Polyclonal Antibody | anti-CCNE1 antibody

Phospho-Cyclin E1 (Thr395) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321574	Rabbit	Human	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

Cyclin E1; Polyclonal Antibody; Phospho-Cyclin E1 (Thr395) Antibody; CCNE; Ccne1; CCNE1_HUMAN; cyclin E variant ex5del; cyclin E variant ex7del; Cyclin Es; Cyclin Et; CyclinE; G1/S specific cyclin E; G1/S-specific cyclin-E1; anti-CCNE1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-Cyclin E1 (Thr395) antibody detects endogenous levels of Cyclin E1 only when phosphorylated at Threonine 395
Purity/Purification	From purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	410
Applicable Applications for anti-CCNE1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human Cyclin E1 around the phosphorylation site of Threonine 395
Subcellular Location	Nucleus.
Tissue Specificity	Highly expressed in testis and placenta. Low levels in bronchial epithelial cells.
Predicted Cross Reactivity	Bovine, Horse, Sheep
Similarity	Bovine (82%), Horse (80%), Sheep (82%)
Conjugation	Unconjugated
Epitope	Phospho Thr395
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA321574 staining MCF7 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



WB (Western Blot)

Western blot analysis of Cyclin E1 phosphorylation expression in Paclitaxel treated HeLa whole cell lysates, The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-CCNE1 antibody

Description: 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.
Function: Essential for the control of the cell cycle at the G1/S (start) transition.
Subunit Structure: Interacts with a member of the CDK2/CDK protein kinases to form a serine/threonine kinase holoenzyme complex. The cyclin subunit imparts substrate specificity to the complex. Found in a complex with CDK2, CABLES1 and CCNA1 (By similarity). Part of a complex consisting of UHRF2, CDK2 and CCNE1. Interacts directly with UHRF2; the interaction ubiquitinates CCNE1 and appears to occur independently of CCNE1 phosphorylation.
Post-translational Modifications: Phosphorylation of both Thr-395 by GSK3 and Ser-399 by CDK2 creates a high affinity degron recognized by FBXW7, and accelerates degradation via the ubiquitin proteasome pathway. Phosphorylation at Thr-77 creates a low affinity degron also recognized by FBXW7. Ubiquitinated by UHRF2; appears to occur independently of phosphorylation.
Similarity: Belongs to the cyclin family. Cyclin E subfamily.

NCBI AND UNIPROT INFORMATION

NCBI GI #	17318559
NCBI GeneID	898
NCBI Accession #	NP_001229.1
NCBI GenBank Nucleotide #	NM_001238.3
UniProt Accession #	P24864; Q14091; Q8NFG1; Q92501; Q9UD21; A8K684
Molecular Weight	Observed: 48 kDa Predicted: 48 kDa
NCBI Official Full Name	G1/S-specific cyclin-E1 isoform 1
NCBI Official Synonym Full Names	cyclin E1
NCBI Official Symbol	CCNE1
NCBI Official Synonym Symbols	CCNE; pCCNE1
NCBI Protein Information	G1/S-specific cyclin-E1
UniProt Protein Name	G1/S-specific cyclin-E1
UniProt Gene Name	CCNE1
UniProt Synonym Gene Names	CCNE

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