Datasheet for ABIN670311

anti-Cyclin E1 antibody (AA 375-411)

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Overview

Quantity:	100 µL
Target:	Cyclin E1 (CCNE1)
Binding Specificity:	AA 375-411
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Cyclin E1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from rat Cyclin E
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Purified by Protein A.

Target Details

Target:	Cyclin E1 (CCNE1)
Alternative Name:	Cyclin E (CCNE1 Products)

Target Details

Background:	Synonyms: Ccne, CYCLE, G1/S-specific cyclin-E1, Ccne1 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. Transcript Variant: This variant (1) contains a different 5' end region, which includes an upstream in-frame translation start codon, when compared to variant 2. The encoded protein has a 15 aa longer N-terminus, as compared to isoform 2.
Gene ID:	25729
UniProt:	P39949
Pathways:	Cell Division Cycle, Intracellular Steroid Hormone Receptor Signaling Pathway, Nuclear Hormone Receptor Binding, Mitotic G1-G1/S Phases

Application Details

Application Notes:	WB 1:300-5000
	ELISA 1:500-1000
	FCM 1:20-100
	IHC-P 1:200-400
	IHC-F 1:100-500
	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200
	IF(ICC) 1:50-200

Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 μg/μL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Publications

Product cited in:

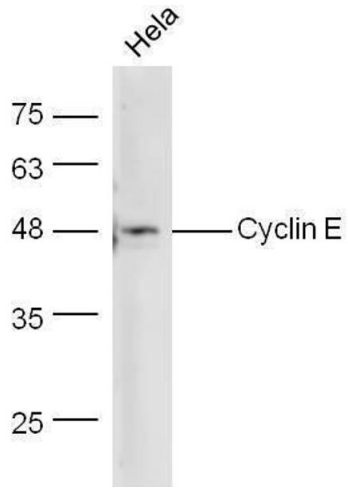
Zhang, Yang, Li, Xu, Yan, Gao, Jia, Duan: "Angelica polysaccharides inhibit the growth and promote the apoptosis of U251 glioma cells in vitro and in vivo." in: **Phytomedicine : international journal of phytotherapy and phytopharmacology**, Vol. 33, pp. 21-27, (2017) (PubMed).

Chang, Niu, Gu, Zhao, Wang, Jia, Li, Xu: "Analysis of the ways and methods of signaling pathways in regulating cell cycle of NIH3T3 at transcriptional level." in: **BMC cell biology**, Vol. 16, pp. 25, (2016) (PubMed).

Xu, Zhang, Li, Li, Zhang: "Concentration-Dependent Diversifcation Effects of Free Cholesterol Loading on Macrophage Viability and Polarization." in: **Cellular physiology and biochemistry : international journal of experimental cellular physiology, biochemistry, and pharmacology**, Vol. 37, Issue 2, pp. 419-31, (2015) (PubMed).

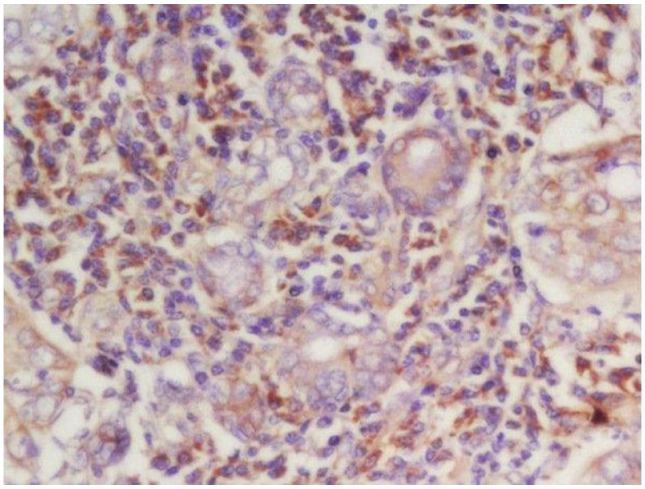
Chen, Wang, Wang, Huang, Zhang: "STAT1 inhibits human hepatocellular carcinoma cell growth through induction of p53 and Fbxw7." in: **Cancer cell international**, Vol. 15, pp. 111, (2015) (PubMed).

Lv, Ren, Ma, Xu, Qu, Liu, Zhou, Chen, Yu: "Synthesis, biological evaluation and mechanism studies of deoxytylophorinine and its derivatives as potential anticancer agents." in: **PLoS ONE**, Vol. 7, Issue 1, pp. e30342, (2012) (PubMed).



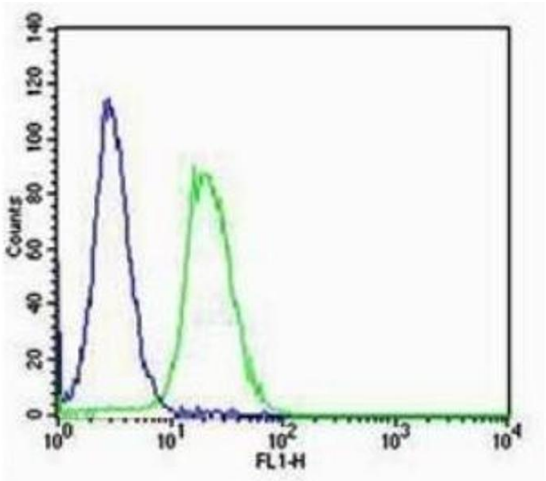
Western Blotting

Image 1. Hela cells lysate probed with Anti-Cyclin E Polyclonal Antibody at 1:5000 90min in 37˚C.



Immunohistochemistry (Paraffin-embedded Sections)

Image 2. Formalin-fixed and paraffin embedded human laryngeal carcinoma labeled with Rabbit Anti-Cyclin E Polyclonal Antibody, Unconjugated (ABIN670311) at 1:200 followed by conjugation to the secondary antibody and DAB staining



Flow Cytometry

Image 3. NIH/3T3 cells probed with Rabbit Anti-RAGE Polyclonal Antibody Alexa Fluor 488 Conjugated Secondary Antibody.