

Datasheet for ABIN2682980
anti-Cyclin E1 antibody (AA 307-410)

5 Images

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Overview

Quantity:	0.1 mg
Target:	Cyclin E1 (CCNE1)
Binding Specificity:	AA 307-410
Reactivity:	Human, Mouse
Host:	Mouse
Clonality:	Monoclonal
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS)

Product Details

Immunogen:	Purified recombinant fragment of human CCNE1 (AA: 307-410) expressed in E. coli.
Clone:	5F8C5
Isotype:	IgG1
Purification:	purified

Target Details

Target:	Cyclin E1 (CCNE1)
Alternative Name:	CCNE1 (CCNE1 Products)
Background:	Description: 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

Target Details

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.

Aliases: CCNE

Molecular Weight: 47 kDa

Gene ID: 898

HGNC: 898

Pathways: [Cell Division Cycle](#), [Intracellular Steroid Hormone Receptor Signaling Pathway](#), [Nuclear Hormone Receptor Binding](#), [Mitotic G1-G1/S Phases](#)

Application Details

Application Notes: ELISA: 1:10000, WB: 1:500 - 1:2000, FCM: 1:200 - 1:400

Restrictions: For Research Use only

Handling

Format: Liquid

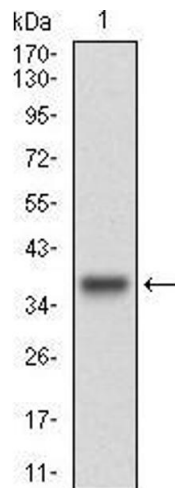
Buffer: Purified antibody in PBS with 0.05 % sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

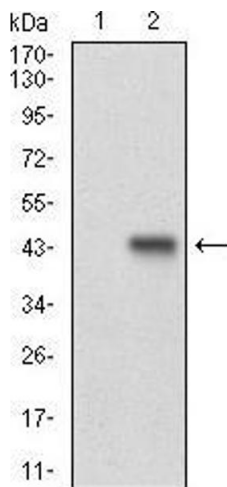
Storage: 4 °C/-20 °C

Storage Comment: 4°C, -20°C for long term storage



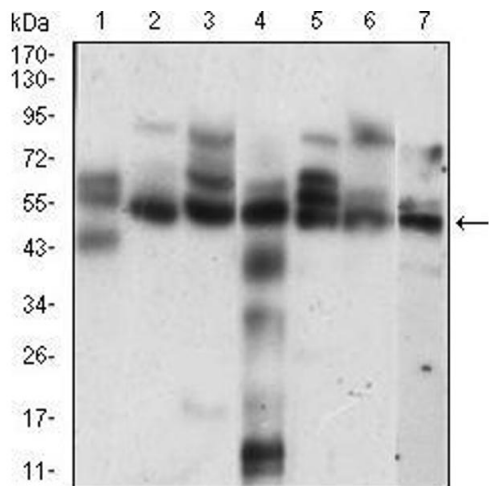
Western Blotting

Image 1. Western blot analysis using CCNE1 mAb against human CCNE1 (AA: 307-410) recombinant protein. (Expected MW is 37.5 kDa)



Western Blotting

Image 2. Western blot analysis using CCNE1 mAb against HEK293 (1) and CCNE1 (AA: 307-410)-hlgGFc transfected HEK293 (2) cell lysate.



Western Blotting

Image 3. Western blot analysis using CCNE1 mouse mAb against HeLa (1), K562 (2), NIH/3T3 (3), C6 (4), MCF-7 (5), Jurkat (6), A431 (7) cell lysate.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN2682980.