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**Product Name: CCNE1 Mouse Monoclonal Antibody****Catalog #: AMM82446**

For research use only.

**Summary**

|                      |                                                                             |
|----------------------|-----------------------------------------------------------------------------|
| <b>Description</b>   | Mouse monoclonal Antibody                                                   |
| <b>Host</b>          | Mouse                                                                       |
| <b>Application</b>   | IHC,ELISA,FC                                                                |
| <b>Reactivity</b>    | Human                                                                       |
| <b>Conjugation</b>   | Unconjugated                                                                |
| <b>Modification</b>  | Unmodified                                                                  |
| <b>Isotype</b>       | Mouse IgG1                                                                  |
| <b>Clonality</b>     | Monoclonal                                                                  |
| <b>Form</b>          | Liquid                                                                      |
| <b>Concentration</b> | 1mg/ml                                                                      |
| <b>Storage</b>       | Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles. |
| <b>Shipping</b>      | Ice bags                                                                    |
| <b>Buffer</b>        | Purified antibody in PBS with 0.05% sodium azide                            |
| <b>Purification</b>  | Affinity Purification                                                       |

**Application**

|                         |                                                      |
|-------------------------|------------------------------------------------------|
| <b>Dilution Ratio</b>   | IHC 1:200-1:1000,ELISA 1:5000-1:20000,FC 1:200-1:400 |
| <b>Molecular Weight</b> | 47kDa                                                |

**Antigen Information**

|                          |                                                                                |
|--------------------------|--------------------------------------------------------------------------------|
| <b>Gene Name</b>         | CCNE1                                                                          |
| <b>Alternative Names</b> | CCNE; Pccne1                                                                   |
| <b>Gene ID</b>           | 898.0                                                                          |
| <b>SwissProt ID</b>      | P24864                                                                         |
| <b>Immunogen</b>         | Purified recombinant fragment of human CCNE1 (AA: 1-100) expressed in E. Coli. |

**Background**

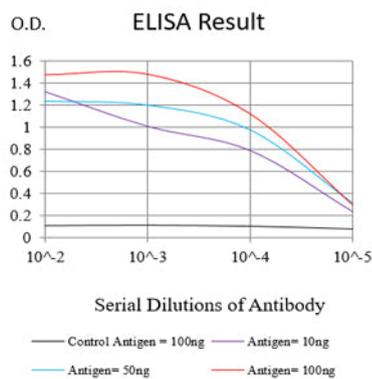
The protein encoded by this gene belongs to the highly conserved cyclin family, whose members are characterized by a dramatic periodicity in protein abundance through the cell cycle. Cyclins function as regulators of CDK kinases. Different cyclins exhibit distinct expression and degradation patterns 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. [provided by RefSeq, Apr 2016]

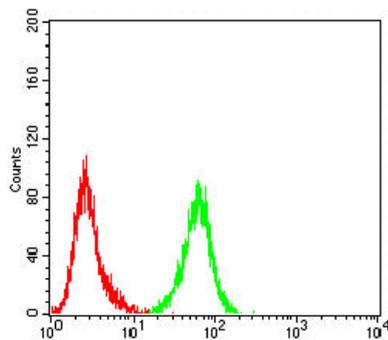
## Research Area

PI3K-Akt signaling pathway, mTOR signaling pathway

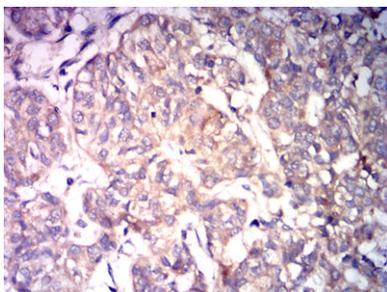
## Image Data



Black line: Control Antigen (100 ng); Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng)



Flow cytometric analysis of HeLa cells using CCNE1 mouse mAb (green) and negative control (red).



Immunohistochemical analysis of paraffin-embedded human bladder cancer tissues using CCNE1 mouse mAb with DAB staining.