Mouse anti Cyclin E Monoclonal Antibody

Alternative Name(s): CCNE; pCCNE1

Order Information

- **Description:** cyclin E
- **Catalogue:** 605-760
- **Lot:** See label
- **Size:** 100 ug/200 ul
- **Host:** Mouse
- **Clone:** HE12
- **Application:** IHC(P), FC
- **Cross Reactivity:** Hu

ANTIGEN PREPARATION

A synthetic peptide derived from C-term of human Cyclin E protein.

BACKGROUND

Cyclin E 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. Cyclin E 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. Cyclin E/CDK2 regulates multiple cellular processes by phosphorylating numerous downstream proteins. Overexpression of this gene has been observed in many tumors, which results in chromosome instability, and thus may contribute to tumorigenesis.

PURIFICATION

The mouse IgG is purified by Protein A-Affinity Chromatography according to Isotyping

FORMULATION

This affinity purified antibody is supplied in sterile Phosphate buffered saline (pH7.2) containing antibody stabilizer.

SPECIFICITY

nan

STORAGE

The antibodies are stable for 12 months from date of receipt when stored at –20oC. The antibodies can be stored at 2oC-8oC for one month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

APPLICATIONS/SUGGESTED WORKING DILUTIONS*

- Western Blot: 0.1-1 µg/ml
- ELISA: 0.01-0.1 µg/ml
- Immunoprecipitation: 2-5 µg/ml
- IHC: 2-10 µg/ml
- Flow cytometry: 5-10 µg/ml
- MW (kDa): 50
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

*Optimal dilutions should be determined by researchers for the specific applications.

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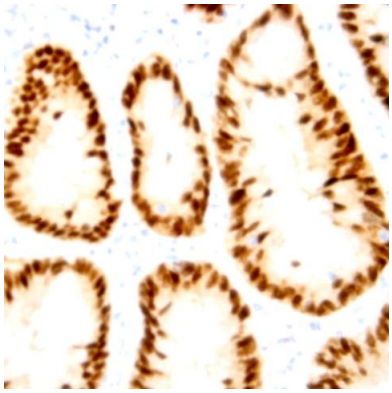
DATA ATTACHMENTS



Immunohistochemistry: Human colon carcinoma (FFPE) stained with Mouse anti- Cyclin E (Cat#605-760) at 1:200 for 10 min @ RT. Staining of formalin-fixed tissue requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min.

REFERENCES

Entrez gene: CCNE1
Donnellan, R., Chetty, R. (1999) FASEB J. 13, 773–780
Minella AC et al (2008). Genes & Development. 22 (12): 1677–89.

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