CCNE1 monoclonal antibody, clone 168

Catalog # MAB1856 Size 100 ug

Specification

Product Description	Mouse monoclonal antibody raised against full length recombinant CCNE1.
Immunogen	Recombinant protein corresponding to full length human CCNE1.
Host	Mouse
Reactivity	Human, Monkey
Form	Liquid
Isotype	IgG2a
Quality Control Testing	Antibody Reactive Against Recombinant Protein.
Recommend Usage	The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.08% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Western Blot
- Immunoprecipitation

Gene Info — CCNE1

Entrez GeneID	898

Gene Name	CCNE1
Gene Alias	CCNE
Gene Description	cyclin E1
Omim ID	123837
Gene Ontology	Hyperlink
Gene Summary	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 fu nction 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 co mplex 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 p rogress 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 foun d to associate with, and be involved in, the phosphorylation of NPAT protein (nuclear protein map ped to the ATM locus), which participates in cell-cycle regulated histone gene expression and pla ys a critical role in promoting cell-cycle progression in the absence of pRB. Two alternatively splic ed transcript variants of this gene, which encode distinct isoforms, have been described. Two add itional splice variants were reported but detailed nucleotide sequence information is not yet availa ble. [provided by RefSeq
Other Designations	cyclin Es|cyclin Et

Publication Reference

- Rescue of cyclin D1 deficiency by knockin cyclin E.

  Geng Y, Whoriskey W, Park MY, Bronson RT, Medema RH, Li T, Weinberg RA, Sicinski P.

  Cell 1999 Jun; 97(6):767.

  Application: KA, WB-Ce, WB-Ti, Human, Mouse, Mouse embryo fibroblasts, Mouse tissues

- Requirement of Cdk2-cyclin E activity for repeated centrosome reproduction in Xenopus egg extracts.

  Hinchcliffe EH, Li C, Thompson EA, Maller JL, Sluder G.

  Science 1999 Feb; 283(5403):851.

  Application: IF, Frog, Xenopus embryonic blastomeres

- Cyclin E, a potential prognostic marker for breast cancer.

  Keyomarsi K, O'Leary N, Molnar G, Lees E, Fingert HJ, Pardee AB.

  Cancer Research 1994 Jan; 54(2):380.

Pathway

- Cell cycle
- p53 signaling pathway
- Pathways in cancer
- Prostate cancer
- Small cell lung cancer

Disease

- Adenocarcinoma
- Breast cancer
- Breast Neoplasms
- Disease Progression
- Esophageal Neoplasms
- Genetic Predisposition to Disease
- Neoplasm Invasiveness
- Neoplasms
- Ovarian cancer
- Ovarian Neoplasms
- Urinary Bladder Neoplasms