



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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**cyclin E. Mouse Monoclonal Antibody**

**BACKGROUND**

Human cyclin E was originally identified by complementation of a triple cln deletion in *Saccharomyces cerevisiae*. Following the identification of human cyclin E protein, researchers found that breast cancers and some other solid tumors exhibited both quantitative and qualitative alterations in cyclin E protein production. In particular, the alterations in cyclin E expression in breast cancer correlated with increasing stage and grade of the tumor. These results suggested that cyclin E might be useful as a prognostic marker. More recently, Geng et al generated a mouse strain in which the coding sequences for cyclin D1 was deleted and replaced with those of human cyclin E. Replacement of cyclin D1 with cyclin E rescued all phenotypic manifestations seen in the cyclin D1 deficient mice and restored normal development to cyclin D1-dependent tissues. Based on the results of these studies, it appears that cyclin E is the major downstream target of cyclin D1.

In addition to functioning downstream of cyclin D1, recent studies with *Xenopus* egg extracts demonstrated that cyclin E localizes to the centrosome. In these studies CDK2-cyclin E activity was shown to be required for centrosome duplication during S phase. Taken together, these data suggest a mechanism that coordinates centrosome reproduction with cycles of DNA synthesis and mitosis.

**IMMUNOGEN**

Recombinant full-length human cyclin E protein

**POSITIVE CONTROL/TISSUE EXPRESSION**

**COMMENTS**

Antibody detects human cyclin E protein by Western blot. Detects a 50 kDa band. Optimal concentration should be evaluated by serial dilutions.

**ORDERING INFORMATION**

**CATALOG NUMBER**

C115M

**SIZE**

100 µg

**FORM**

Unconjugated

**HOST/CLONE**

Mouse Clone 168

**FORMULATION**

Provided as solution in phosphate buffered saline with 0.08% sodium azide

**CONCENTRATION**

See vial for concentration

**ISOTYPE**

IgG2a

**APPLICATIONS**

Western Blot, Immunoprecipitation

**SPECIES REACTIVITY**

Human

**ACCESSION NUMBER**

P24864, Human

**PURIFICATION**

Protein A/G Chromatography

**SHIP CONDITIONS**

Ship at ambient temperature, freeze upon arrival

**STORAGE CUSTOMER**

Product should be stored at -20°C. Aliquot to avoid freeze/thaw cycles

**STABILITY**

Products are stable for one year from purchase when stored properly

**REFERENCES**

1. Koff, A., et al. "Human cyclin E, a new cyclin that interacts with two members of the CDC2 gene family. Cell 1991, 66, 1217-1228.
2. Keyomarsi, K., et al. "Cyclin E, a potential prognostic marker for breast cancer. Cancer Res. 1994, 54, 380-385.
3. Geng, Y., et al. "Rescue of cyclin D1 deficiency by knockin cyclin E. Cell 1999, 97, 767-777.
4. Hinchcliffe, E.H., et al. "Requirement of Cdk2-cyclin E activity for repeated centrosome reproduction in Xenopus egg extracts. Science 1999, 283, 851-854.