

DB015: cyclin E (C19)

Background:

During each cell cycle cyclins undergo periodic accumulation and destruction. As key regulators of the cell cycle the cyclins control important transitions by activating Cdks (1,2). Early in the G1 phase of the cell cycle cyclin D1 induction is followed by cyclin E induction (3,4). This sequential progression is marked early on in G1by the activation of Cdk4 and in mid to late G1 by the activation of Cdk2 and the hyperphosphorylation of pRB (3,5). The final transition into S phase is thought to be dependent on the increased expression and association of cyclin E and Cdk2 (5,6).

Origin:

Cyclin E (C19) is provided as an affinity purified rabbit polyclonal antibody, raised against a peptide mapping to the carboxy terminus of rat cyclin E.

Product Details:

Each vial contains 200 μg/ml of affinity purified rabbit IgG, cyclin E (C19) DB015, in 1 ml PBS containing 0.1 % sodium azide and 0.2% gelatin.

Competition Studies:

A blocking peptide is also available, DB015P, for use in competition studies. Each vial contains 100 μ g of peptide in 0.5 ml PBS with 0.1% sodium azide and 100 μ g BSA.

Specificity:

Cyclin E (C19) DB015 reacts with cyclin E of mouse, rat, and human origin by western blotting, immunoprecipitation, and immunohistochemistry.

Storage:

Store this product at 4° C, do not freeze. The product is stable for one year from the date of shipment.

References:

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- Geng Y, Whorishey W, Park MY, Bronson RT, Medema RH, Li T, Weinberg RA, Sicinski P. 1999. Rescue of cyclin D1 deficiency by knockin cyclin E. Cell 97(6): 767-777.
- Prall OW, Sarcevic B, Musgrove EA, Watts CK, Sutherland RL. 1997. Estrogen-induced activation of Cdk4 and Cdk2 during G1-S phase progression is accompanied by increased cyclin D1 expression and decreased cyclin-dependent kinase inhibitor association with cyclin E-Cdk2. J Biol Chem 272(16): 10882-10894.
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