CyclinB2 Null Mouse

Catalogue number: 151845
Sub-type: Mouse
Images:

Contributor

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Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: CyclinB2 Null Mouse

Alternate name:

Class:
Conjugate:
Description: Cyclin B2 is a mitotic B-type cyclin that activates the p34 cdc2 protein kinase to form maturation promoting factor, which is required for cells to undergo mitosis. Cyclin B2 is expressed in majority of dividing cells and is usually associated with intracellular membranes. Nullizygous B2 mice developed normally and did not display any obvious abnormalities in adult life. Moreover, both male and female cyclin B2-null mice proved to be fertile. Although mutant mice lacking cyclin B2 proved to be viable, and both sexes were fertile, the sizes of the litters of homozygous mating pairs were consistently smaller than those of their heterozygous littermates.
Purpose:
Parental cell:
Organism:
Tissue:
Model: Knock-Out
Gender:
Isotype:
Reactivity:
Selectivity:
Host:
Immunogen:
Immunogen UNIPROT ID:
Sequence:
Growth properties:
Production details:

The targeting vectors (20 mg) for disruption of cyclins B1 or B2 were linearized with NotI and separately electroporated into GK129 ES cells from 129yOla mice and selected as described by Fantl et al. (see reference). G418-resistant colonies were picked and grown in duplicate 96 well plates. Genomic DNA for screening was prepared from one set of plates while the cells in the other set were stored as frozen stocks. DNA was prepared (see reference) and screened for homologous recombination as described in the publication. Cells from colonies that underwent homologous recombination were thawed, expanded and injected into blastocysts as described by Fantl et al.. The chimeras that developed from these blastocysts were mated to C57BLy6 mice and agouti offspring were screened by Southern blotting with the same intron 7 probe used for the screen of the neomycin-resistant colonies for the cyclin B2 gene.
Formulation:
Recommended controls:
Bacterial resistance:
Selectable markers:
Additional notes:

Target details

Target: Cyclin B2

Target alternate names:

Target background:

Molecular weight:

Ic50:

Applications

Application:
Application notes:

Handling

Format:
Concentration:
Passage number:
Growth medium:
Temperature:
Atmosphere:
Volume:
Storage medium:
Storage buffer:
Storage conditions:
Shipping conditions:

Embryo/Spermatoza- Dry Ice

Related tools

Related tools:

References

References: