

PKCepsilon Mouse

Catalogue number: 151662

Sub-type: Mouse

Images:

Contributor

Inventor: Peter Parker

Institute: Cancer Research UK, London Research Institute: Lincoln's Inn Fields

Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: PKCepsilon Mouse

Alternate name:

Class:

Conjugate:

Description: Investigating the biological role of PKCepsilon (e.g. required for macrophage activation and defence against bacterial infection, roles in cell division). Mouse line with a homozygous disruption of the PKCepsilon locus. PKCe^{-/-} animals appear normal and are generally healthy, though the female mice frequently develop a bacterial infection of the uterus. Macrophages from the PKCe^{-/-} mice demonstrate a severely attenuated response to LPS and IFNγ. Mice have a significantly decreased survival when challenged iv with Gram -ve or +ve bacteria.

Purpose:

Parental cell:

Organism:

Tissue:

Model:

Gender:

Isotype:

Reactivity:

Selectivity:

Host:

Immunogen:

Immunogen UNIPROT ID:

Sequence:

Growth properties:

Production details: A 9.3-kb EcoRI fragment containing the first exon of the PKCe gene was isolated

from a murine 129/Sv genomic DNA library. A targeting vector was generated by introducing a positive selectable cassette into the PstI site of exon 1. This cassette contains stop codons in all three frames, an independent ribosomal entry site (IRES) followed by the LacZ gene with an SV40 polyadenylation sequence, and a neomycin phosphotransferase gene (MC1Neo poly(A)). Correctly targeted GK129 ES cells were injected into C57BL/6 blastocysts. Chimeric mice were bred to C57BL/6 mice in specific pathogen-free (SPF) conditions to generate PKCe homozygous mutant animals. PKCe^{-/-} and PKCe^{+/-} mice were maintained on a mixed C57BL/6 129/Sv genetic background and were genotyped by Southern blot or PCR analysis of tail DNA. Mice were fed ad libitum with a standard diet (Panlab) and kept under a light and dark cycle of 12 h (lights on at 8 a.m.).

Formulation:

Recommended controls:

Bacterial resistance:

Selectable markers:

Additional notes:

Target details

Target: PKC epsilon

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/Spermatozoa- Dry Ice

Related tools

Related tools:

References

References: Delabesse et al. 1998. Br J Haematol. 102(2):449-57. PMID: 9695959. ; TAL1 expression does not occur in the majority of T-ALL blasts. ; Bernard et al. 1995. Blood. 85(11):3356-7. PMID: 7756670. ; Nuclear localization of the SCL/TAL1 basic helix-loop-helix protein is not dependent on the presence of the basic domain. ; Pulford et al. 1995. Blood. 85(3):675-84. PMID: 7833471. ; Expression of TAL-1 proteins in human tissues.