MDR KO Mouse

Catalogue number: 154094
Sub-type: Mouse
Images:

Contributor

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Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: MDR KO Mouse

Alternate name:

Class:
Conjugate:
Description: Deletion of human chromosomal region 13q14 (mouse 14qC3) represents the most common genetic aberration in B-cell chronic lymphocytic leukaemia (CLL), a neoplasm of mature B lymphocytes. 13q14 deletions are commonly large and heterogeneous in size and affect multiple genes. Contained within the 13q14 region is the 0.11 megabase-long MDR, which encompasses the DLEU2 gene and miR-15a/16-1 cluster. Deletion of the MDR in this model organism recapitulates the full spectrum of CLL-associated lymphoproliferations in humans.
Purpose:
Parental cell:
Organism:
Tissue:
Model: Knock-Out
Gender:
Isotype:
Reactivity:
Selectivity:
Host:
Immunogen:
Immunogen UNIPROT ID:
Sequence:
Growth properties:
Production details: A targeting vector was devised in order to flank MDR with frt-sites. DNA

fragments of the 129/Sv-14qC3 were inserted into the targeting vector. Chimeras were obtained from correctly targeted ES cell colonies after injection of the targeted W9.5 ES clones (129/SvEvTac) into blastocysts derived from C57BL/6 mice, and gave rise to MDRfl/+ mice. The chimeras were then crossed with 129/SvCAGGS-Flpe to generate a MDR null allele
Formulation:
Recommended controls:
Bacterial resistance:
Selectable markers:
Additional notes: Knockout mouse of the MDR chromosomal region in m14qC3/h13q14, which encodes the DLEU2 gene and the miR15a/16-1 microRNA cluster

Target details

Target: Minimal deleted region of h13q14/m14qC3

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: De Keersmaecker et al. 2010. Nat Med. 16(11):1321-7. PMID: 20972433. ; The TLX1 oncogene drives aneuploidy in T cell transformation.