Prox1CreERT2 Mouse

Catalogue number: 151718
Sub-type: Mouse
Images:

Contributor

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Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: Prox1CreERT2 Mouse

Alternate name:

Class:
Conjugate:
Description: Allows specific and temporally controlled cre-loxP recombination (gene inactivation/activation) in Prox1-expressing tissues, including lymphatic endothelia. Efficient recombination is observed during all developmental stages (embryonic, postnatal) and in adults. Currently no other models are available that allow such efficient and specific targetting of lymphatic vasculature. Transgenic mouse expressing tamoxifen-inducible creERT2 under the control of Prox1 gene promoter
Purpose:
Parental cell:
Organism:
Tissue:
Model: Conditional KO
Gender:
Isotype:
Reactivity:
Selectivity:
Host:
Immunogen:
Immunogen UNIPROT ID:
Sequence:
Growth properties:
Production details: A cDNA encoding tamoxifen inducible Cre recombinase (CreERT2) followed by

SV40 polyadenylation signal was introduced into the start codon of Prox1 in BAC clone RP23-190F21 using homologous recombination in bacteria. The construct was validated by PCR and Southern blot analyses, and used for pronuclear injection into fertilised mouse oocytes. Two founder lines were generated and tested by timed matings with Cre reporter strains, followed by 4-OHT administration, for specificity and efficiency of Cre-mediated recombination. One of the founder lines that gave efficient recombination in all Prox1-expressing tissues was kept for further studies.
Formulation:
Recommended controls:
Bacterial resistance:
Selectable markers:
Additional notes:

Target details

Target: Prox1

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: Dooley et al. 2014. Mol Cell. 55(2):238-52. PMID: 24954904. ; WIPI2 links LC3 conjugation with PI3P, autophagosome formation, and pathogen clearance by recruiting Atg12-5-16L1.