

p110Delta Flox Mouse

Catalogue number: 152436

Sub-type: Mouse

Images:

Contributor

Inventor: Martin Turner

Institute: Babraham Institute

Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: p110Delta Flox Mouse

Alternate name: PI3KdeltaPhosphatidylinositol-4,5-Bisphosphate 3-Kinase 11 KDa Catalytic Subunit
Deltaphosphoinositide-3-kinase C

Class:

Conjugate:

Description: p110 $\hat{\gamma}$ is a member of the PI3K family that phosphorylates phosphoinositides on the 3-hydroxyl group of the inositol ring. The PI3K pathway has been implicated in lymphocyte development and activation. p110 $\hat{\gamma}$ plays a role in oncogenic transformation, and is consistently expressed at a high level in blast cells from AML. Additionally, p110 $\hat{\gamma}$ signaling pathway is involved in immune responses relevant to the pathogenesis of rheumatoid arthritis and other inflammatory diseases. As p110 $\hat{\gamma}$ is expressed by most cells in the immune system, the Cre/LoxP technology is a good tool to identify the cell types that depended on p110 $\hat{\gamma}$ in the GC reaction.

Purpose:

Parental cell:

Organism:

Tissue:

Model: Conditional KO

Gender:

Isotype:

Reactivity:

Selectivity:

Host:

Immunogen:

Immunogen UNIPROT ID:

Sequence:

Growth properties:

Production details: The pik3cd targeting vector was generated introducing a single LoxP site into the XhoI site upstream of the first coding exon and a neomycin cassette flanked by FRT sites and a single LoxP site (FRTneoFRT) into the EcoRV site between exons 9 and 10. Targeted E14 ES clones were identified by Southern blot analysis of EcoRV digests, which yielded a 5.6-kb fragment for non targeted clones and a 4.2-kb fragment for targeted clones. FLPe was transiently expressed to mediate recombination excision of the neomycin cassette, which was verified by Southern blot analysis. One of the correct clones was selected and injected into blastocysts to produce chimeric mice

Formulation:

Recommended controls:

Bacterial resistance:

Selectable markers:

Additional notes:

Target details

Target: p110?

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:

Related tools

Related tools:

References

References: Clayton et al. 2002. J Exp Med. 196(6):753-63. PMID: 12235209

CancerTools.org