

p110Delta KO Mouse

Catalogue number: 152435

Sub-type: Mouse

Images:

Contributor

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Institute: Babraham Institute

Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: p110Delta KO Mouse

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

Class:

Conjugate:

Description: p110 δ 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 δ plays a role in oncogenic transformation, and is consistently expressed at a high level in blast cells from AML. Additionally, p110 δ signaling pathway is involved in immune responses relevant to the pathogenesis of rheumatoid arthritis and other inflammatory diseases.

Purpose:

Parental cell:

Organism:

Tissue:

Model:

Gender:

Isotype:

Reactivity:

Selectivity:

Host:

Immunogen:

Immunogen UNIPROT ID:

Sequence:

Growth properties:

Production details: LoxP flanked neomycin and hygromycin-resistance cassettes were cloned 7.5 kb

apart into the EcoRV and XhoI sites respectively of a murine pik3cd genomic isolated from a 129/Sv genomic library. The targeting vector was transfected into PC3 mouse embryonic stem cells and analyzed for the targeting event using Southern blotting of KpnI-digested DNA yielding a 700-bp EcoRI fragment. Correctly targeted clones were injected into blastocysts to produce chimaeric mice. The resulting chimaeras, which express the Cre enzyme in the male germline, were bred to obtain lines of mice harboring a pik3cd gene which had undergone Cre-mediated recombination and thus deleted exons 1-9 encoding the first 490 amino acids of p110 β . These were detected by Southern blot analysis using KpnI-digested DNA and by PCR.

Formulation:

Recommended controls:

Bacterial resistance:

Selectable markers:

Additional notes:

Target details

Target: p110 β

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: Bacac et al. 2016. Clin Cancer Res. 22(13):3286-97. PMID: 26861458. ; Hsia et al. 2016. Proc Natl Acad Sci U S A. :. PMID: 27036009. ; Myofibroblasts are distinguished from activated skin fibroblasts by the expression of AOC3 and other associated markers. ; A Novel Carcinoembryonic Antigen T-Cell Bispecific Antibody (CEA TCB) for the Treatment of Solid Tumors. ; Browning et al. 1993. J Immunother Emphasis Tumor Immunol. 14(3):163-8. PMID: 8297898. ; Loss of human leukocyte antigen expression on colorectal tumor cell lines: implications for anti-tumor immunity and immunotherapy. ; Richman et al. 1988. J Pathol. 156(3):197-211. PMID: 3204451. ; Control of differentiation in human colorectal carcinoma cell lines: epithelial-mesenchymal interactions.

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