

Vps34- kinase-dead

Catalogue number: 158399

Sub-type: Mouse

Images:

Contributor

Inventor: Bart Vanhaesebroeck

Institute: Ludwig Institute for Cancer Research

Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: Vps34- kinase-dead

Alternate name:

Class:

Conjugate:

Description:

Purpose:

Parental cell:

Organism:

Tissue:

Model: Knock-In

Gender:

Isotype:

Reactivity:

Selectivity:

Host:

Immunogen:

Immunogen UNIPROT ID:

Sequence:

Growth properties:

Production details: Knock-in mice in which the endogenous PIK3C3/vps34 PI3K gene is mutated so that it now encodes a vps34 protein with the D761A mutation in the ATP binding site, converting it to a kinase-dead vps34 protein which is expressed at the same level as wild-type vps34. These mice have been backcrossed onto the B6 background.

Formulation:

Recommended controls:

Bacterial resistance:

Selectable markers:

Additional notes: Homozygous mice show prenatal partial lethality at early embryonic stages between embryonic day (E) 6.5 and 8.5 (see PMID 29180704 for details). Heterozygous mice are healthy and display a robustly enhanced insulin sensitivity and glucose tolerance as well as a partial protection against high-fat-diet-induced liver steatosis. (see PMID 29180704 for details).

Target details

Target: PIK3C3

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: Alliouachene et al. 2015. Cell Rep. 13(9):1881-94. PMID: 26655903.

CancerTools.org