

RalB Floxed Mouse

Catalogue number: 153342

Sub-type: Mouse

Images:

Contributor

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Institute: The Institute of Cancer Research

Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: RalB Floxed Mouse

Alternate name: RAS like proto-oncogene B, RALB, Ras-related protein Ral-B, RAL

Class:

Conjugate:

Description: Ras is a family of proteins which exist in all animal cell lineages and organs. The Ras protein family belongs to a group of proteins called small GTPases which are involved in cellular signal transduction. Ras activation, by incoming cellular signals, switches on other proteins which causes downstream activation of genes involved in cell growth, differentiation and survival. Mutations in Ras genes can lead to the production of permanently activated Ras proteins, overactive signalling inside the cell, even in the absence of incoming signals resulting in uncontrolled cell growth and division which can ultimately lead to cancer. RAL small GTPases, encoded by the Rala and Ralb genes, are members of the Ras superfamily and can act as downstream effectors of Ras. Although both proteins are highly similar, distinct functions have been identified. Ras-related protein Ral-A protein is encoded on chromosome 7, and has been implicated in insulin secretion, epithelial cell polarity neurite branching, neuronal polarity and GLUT4 translocation. Ras-related protein Ral-B protein RALB in migration/invasion, tumor cell survival, autophagy and TBK1 activation.

Purpose:

Parental cell:

Organism:

Tissue:

Model: Transgenic

Gender:

Isotype:

Reactivity:

Selectivity:

Host:

Immunogen:

Immunogen UNIPROT ID:

Sequence:

Growth properties:

Production details: Lox P sequences were inserted to flank exon 2 of the Ral B gene

Formulation:

Recommended controls:

Bacterial resistance:

Selectable markers:

Additional notes:

Target details

Target: Ras-related protein Ral-B

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: RalA Floxed Mouse

References

References: Peschard et al. 2012. Curr Biol. 22(21):2063-8. PMID: 23063435. ; Genetic deletion of RALA and RALB small GTPases reveals redundant functions in development and tumorigenesis.

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