IDH1 Mutant Glioma Xenograft (JHH-273) mouse

Catalogue number: 156429
Sub-type: Mouse
Images:

Contributor

Inventor: Gregory Riggins
Institute: Johns Hopkins University
Images:

Tool details

*FOR RESEARCH USE ONLY

Name: IDH1 Mutant Glioma Xenograft (JHH-273) mouse

Alternate name:

Class:
Conjugate:
Description: An in vivo Isocitrate Dehydrogenase (IDH-1) glioma mouse xenograft model has been developed to further study effective therapies for IDH mutations characterized by increased DNA methylation and production of the common oncometabolite, 2-HG. Difficult grafting cell-culture techniques and current engineered cell line quality have limited additional laboratory studies; however, this model was developed directly from a WHO grade III- glial cell positive cancer patient tissue (JHH273) with a confirmed IDH mutation through DNA sequencing and maintains IDH-1 mutation features observed in human primary glial brain tumors. Additionally, when models were exposed to a demethlyating agent, 5-azacytidine, a reduction in methylation and tumor growth was observed opening the door for more clinical analysis. This model meets a critical need to test drug agents targeting mechanisms involved in glial tumor formation.
Purpose:
Parental cell:
Organism:
Tissue:
Model: Mutant
Gender:
Isotype:
Reactivity:
Selectivity:
Host:
Immunogen:
Immunogen UNIPROT ID:

Sequence:
Growth properties:
Production details:
Formulation:
Recommended controls:
Bacterial resistance:
Selectable markers:
Additional notes:

Target details

Target: IDH1

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: