Floxed-Fbxw7 Mouse

Catalogue number: 153593
Sub-type: Mouse
Images:

Contributor

Inventor: Abdolrahman Shams-Nateri
Institute: University of Nottingham
Images:

Tool details

*FOR RESEARCH USE ONLY

Name: Floxed-Fbxw7 Mouse

Alternate name: F-box/WD repeatâ??containing protein 7, CDC4, Sel1, Ago, Fbw7, SCF, Skp1/Cullin/F-box protein, E3 ubiquitin ligase complex,FBW6, FBX3, FBXO3, FBXW6, SEL-1, hAgo, hCdc4

Class:
Conjugate:
Description: Fbxw7 is a member of the F-box protein family, characterised by a motif of approximately 40 amino acids called the F-box. These proteins constitute one of the four subunits of ubiquitin protein ligase complex called SKP1-cullin-F-box and function in phosphorylation-dependent ubiquitination. Fbxw7 specifically protein contains 7 tandem solenoid protein domains also know as WD40 repeats. Fbwx7 binds directly to cyclin E and probably targets it for ubiquitin-mediated degradation. There are 3 classes of F-box proteins: Fbws containing WD-40 domains Fbls containing leucine-rich repeats Fbxs containing either different protein-protein interaction modules or no recognizable motifs Mutations in Fbwx7 are known to be detected in several cancers, including ovarian, breast and colorectal cancer. Indications like these identify the Fbwx7 gene's potential role in the pathogenesis of human cancers.
Purpose:
Parental cell:
Organism:
Tissue:
Model: Conditional KO
Gender:
Isotype:
Reactivity:
Selectivity:
Host:
Immunogen:

Immunogen UNIPROT ID:
Sequence:
Growth properties:
Production details: A targeting construct was engineered where exon 5 of the Fbxw7 gene was flanked with two LoxP sites and located near a pPGK -NeoR cassette flanked by two FRT sites. This fragment was subcloned into pDT vector and linearized before being electroporated into embryonic stem cells., selected and the Fbxw7 mouse was generated according to standard protocols.
Formulation:
Recommended controls:
Bacterial resistance:
Selectable markers:
Additional notes:

Target details

Target: Fbxw7

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: Double Floxed Fbxw7/FoxM1

References

References: