TRM: Wnt-11 Knock-Out Mice

Published date: Sept. 21, 2019

Technology description

The Wnt11 ^{flox} allele hasloxPsites flanking exon 4 of the wingless-type MMTV integration site family member 11 gene. Removal of the floxed sequence creates a null allele.
The Wnt gene family is composed of a large number of secreted glycoproteins involved in a wide variety of cell interactions ranging from early to adult stage that play a role in morphogenesis, paterning and development. In contrast to the Wnt/β-catenin signaling pathway which most Wnt proteins signal through, Wnt-11 signals via the Wnt/JNK pathway. A recent study demonstrates that the expression of secreted factor Wnt-ll is elevated in several types of cancer, including colorectal cancer (2019 R. M. Kypta et al.)

Application area

Wnt11 ^{flox} mice may be useful in studying WNT signal transduction and WNT superfamily embryogenesis (e.g., kidney [ureteric bud branching morphogenesis], skeleton, lungs, etc.)

Institution

University of California, San Diego

Inventors

Sylvia Evans

联系我们

叶先生

电 话：021-65679356

手 机：13414935137

邮 箱：yeyingsheng@zf-ym.com