

TRM: Wnt-11 Knock-Out Mice

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Technology description

The Wnt11^{flox} allele has loxP sites 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, patterning 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-11 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.)

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