

[Open Peer Review on Qeios](#)

AKR/J Mouse

National Cancer Institute

Source

National Cancer Institute. *AKR/J Mouse*. NCI Thesaurus. Code C14505.

Originally disseminated by Detweiler and carried by Furth (1928-1936) and the Rockefeller Institute for subsequent generations. The AKR mouse has an albino coat (genotype a, B, c) and is highly susceptible to leukemias. The strain is viremic from birth in that all tissues express the AKV retrovirus and copies of the AKV genome are integrated in the mouse genome, which is associated with leukemia development. The AKR strain is also a source of the Thy1.1 thymocyte antigen, which is expressed on thymocyte, bone marrow and T cell progenitors and is used as a marker for a variety of stem cells. The strain has a low reproductive performance with small litter sizes at birth and weaning.