

STAT1 KNOCKOUT MICE

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T-001007

Inventors used homologous recombination techniques to create mice that lack functionally active STAT1. Characterization studies reveal that STAT1-deficient mice display a global state of unresponsiveness to either IFN α or IFN γ and are unable to resolve infections by microbial pathogens and viruses. However, these mice have no developmental abnormalities and maintain normal responsiveness to several other cytokines that activate STAT1 in vitro.

Publication: [Targeted Disruption of the Stat1 Gene in Mice Reveals Unexpected Physiologic Specificity in the JAK-STAT Signaling Pathway](#)