

B6.129P2-Igh^{tm2Mnz} /J

Stock No: **007776**

 Congenic, Targeted Mutation

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and a His to Gln point mutation at codon 35 result in low binding affinity for antigen (B1-8¹⁰). Despite the significantly enhanced affinity for NP, there is only a 2-3 fold difference in the T-independent proliferative response of B cells that carry high or low affinity receptors. In T cell-dependent responses there is no difference in the ability of B1-8 high vs. B1-8 low affinity cells to enter germinal center reactions. However, high affinity B cells were recruited preferentially in response to both T cell-dependent and T cell-independent antigens.

Donating Investigator

Michel C Nussenzweig, The Rockefeller University

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GENETIC OVERVIEW

Genetic Background

Generation

Igh^{tm2Mnz}

Alele Type

Gene Symbol

Gene Name

Targeted

Igh

immunoglobulin heavy chain complex

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