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Office of Technology Management

HAMSTER HYBRIDOMA PRODUCING MONOCLONAL ANTIBODY AGAINST MOUSE CXCR3

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T-005883

Hamsters were immunized with a multiple antigens peptide-8 (MAPS-8) encompassing amino acids 1 to 37 of mouse CXCR3 in complete Freund's adjuvant, and boosted with peptide in incomplete Freund's adjuvant. Hamsters showing ELISA seropositivity for CXCR3 peptide were boosted and hybridomas generated. Hybridoma supernatants were screened by FACS for CXCR3-specific staining and three positive cell lines were identified. One of those was selected for further characterization and repeatedly cloned by limiting dilution, purified from hybridoma supernatants by Protein A affinity chromatography, and were tested for staining, CXCR3 blockade in vitro, and endotoxin levels. This can be used to study $CD4^+$ T cell responses to allograft, host responses to infection and natural killer (NK) cell-dependent primint of $CD4^+$T cells in lymph nodes.

Publication: Prolongation of Cardiac and Islet Allograft Survival by a Blocking Hamster Anti-Mouse CXCR3 Monoclonal Antibody