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JOURNAL ARTICLE

A panel of monoclonal antibodies against human sperm

S. Tang and B. Bean Department of Biological Sciences, Lehigh University, Bethlehem, Pennsylvania 18015-4732, USA.

To help identify and characterize antigens involved in sperm functions and immune infertility, monoclonal antibodies (mAbs) were raised against human sperm antigens. The immunoglobulin G (IgG) fraction of serum from a male donor with a spontaneous high titer of IgG-positive antisperm reactivity (as determined by immunobead binding) was purified by ammonium sulfate precipitation. This IgG preparation was coupled to Sepharose 4B and was used for

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immunoaffinity purification of antigens from a detergent-solubilized extract of pooled normal human sperm. The affinity-purified antigens were used to immunize female mice, and the resultant spleen cells were fused with SP 2/0 mouse myeloma cells to generate hybridomas. A single-step semisolid methylcellulose method was used to isolate hybridomas for the selection of positive clones, which were determined by enzyme-linked immunosorbent assay. Thirty-two positive hybridoma lines were selected for immunolocalization and cross-reactivity studies using an avidin-biotin complex assay. Distinctive staining patterns and distribution of sperm antigens were observed for 10 mAbs. Among them, the cross-reactivity with human lymphocytes was not observed for four mAbs.

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