

**Antibody to human Spermatozoa**
MOUSE MONOCLONAL

Catalog Number: AB-V08
Quantity: 100 micrograms
Format: PBS (0.14 M Sodium Chloride; 0.003 M Potassium Chloride; 0.002 M Potassium Phosphate; 0.01 M Sodium Phosphate; pH 7.4), no preservative.
Host: Mouse
Clone: S19 (MHS8-A5-A1-D7)
Immunogen: human spermatozoa

Background: CD52 is a glycosylphosphatidylinositol (GPI)-anchored antigen expressed on all lymphocytes as well as in the male reproductive tract. In the epididymis and ductus deferens, CD52 is produced by epithelial cells and becomes associated with sperm as they transit through the genital tract. While absent from testicular sperm and spermatogenic cells, CD52 is detectable on epididymal sperm and in seminal fluid. The protein core of CD52 is identical in lymphocytes and sperm, though differences in glycosylation and GPI-anchor structure exist. Antibodies targeting sperm-associated CD52 have been shown to impair sperm function and fertilization, indicating a potential role in reproductive processes.

Specificity & Preparation: Mouse IgG1 antibody generated against human spermatozoa and recognizes a carbohydrate epitope on the spermatozoa glycoform of CD52.

Usage: Applications include immunoprecipitation, immunohistochemistry, and western blot. Working dilutions must be determined by end user.

Storage: Store antibody at -20°C for one year. Avoid repeated freezing and thawing. Gently spin down material 5-10 seconds in a microfuge before use.

**Selected References:**

1. Diekman AB, Norton EJ, Klotz KL, Westbrook VA, Shibahara H, Naaby-Hansen S, Flickinger CJ, Herr JC (1999) N-linked glycan of a sperm CD52 glycoform associated with human infertility. FASEB J 13(11):1303-1313. doi: 10.1096/fasebj.13.11.1303 PMID: 10428755

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