



1F-300-T050

Monoclonal Antibody to VCP Fluorescein (FITC) conjugated (50 tests)

Clone:	Hs-14
Isotype:	Mouse IgM
Specificity:	The antibody Hs-14 reacts with VCP (valosin-containing protein) a 220 kDa protein previously identified under the general name "intra-acrosomal protein".
Regulatory Status:	RUO
Immunogen:	Freshly ejaculated human sperms were washed in PBS and extracted in 3% acetic acid, 10% glycerol, 30 mM benzaminidine. The acid extract was dialyzed against 0.2% acetic acid and subsequently used for immunization.
Species Reactivity:	Human, Mouse
Preparation:	The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC and adjusted for direct use. No reconstitution is necessary.
Storage Buffer:	The reagent is provided in stabilizing Tris buffered saline (TBS) solution containing 15 mM sodium azide.
Storage / Stability:	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.
Usage:	The reagent is designed for Flow Cytometry analysis of sperm cells using 20 µl reagent / 100 µl cell suspension. The content of a vial (1 ml) is sufficient for 50 tests.
Expiration:	See vial label
Lot Number:	See vial label
Background:	VCP (valosin-containing protein), also known as p97, TERA, ALS14, IBMPFD, HEL-220, IBMPFD1, or HEL-S-70, is a member of a protein family that includes putative ATP-binding proteins involved in vesicle transport and fusion, 26S proteasome function, and assembly of peroxisomes. VCP is a structural protein that associates with clathrin and heat-shock protein Hsc70, to form a complex. It has been implicated in a number of cellular events that are regulated during mitosis, including homotypic membrane fusion, spindle pole body function, and ubiquitin-dependent protein degradation. In sperm this intra-acrosomal protein can be used as a marker for evaluation of the physiological state of sperm cells as well as for selection of a suitable method of fertilization in the laboratories of assisted reproduction.

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Antibodies

- References:**
- *Peknicova J, Kyselova V, Buckiova D, Boubelik M: Effect of an endocrine disruptor on mammalian fertility. Application of monoclonal antibodies against sperm proteins as markers for testing sperm damage. *Am J Reprod Immunol.* 2002 May;47(5):311-8.
 - *Pavlásek J, Peknicová J, Ulcová-Gallová Z, Nováková P, Reischig J, Micanová Z, Rokyta Z: Significance of determination of intra-acrosomal proteins and sperm antibodies in human reproduction. *Ceska Gynekol.* 2004 Jul;69(4):306-11.
 - *Tepla O. et al. In: *In vitro Fertilization & Human Reproductive Genetics*, ed. Monduzzi, Bologna, 107, (1999).
 - *Chladek D, Peknicova J, Capkova J, Geussova G, Tepla O, Madar J: Use of human sperm protein monoclonal antibodies in the diagnosis of sperm pathology and selection of a suitable assisted reproduction method for fertilization. *Ceska Gynekol.* 2000 Jan;65(1):28-32. Czech.
 - *Peknicova J, Chladek D, Hozak P: Monoclonal antibodies against sperm intra-acrosomal antigens as markers for male infertility diagnostics and estimation of spermatogenesis. *Am J Reprod Immunol.* 2005 Jan;53(1):42-9.

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