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30-1977: FITC Conjugated Anti-VCP Monoclonal Antibody (Clone:Hs-14)

Clonality :	Monoclonal
Clone Name :	Hs-14
Application :	FACS
Reactivity :	Mouse
Conjugate :	FITC
Gene :	VCPKMT
Gene ID :	79609
Uniprot ID :	Q9H867
Alternative Name :	VCPKMT, C14orf138, METTL21D
Isotype :	Mouse IgM
Immunogen Information :	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.

Description

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.

Product Info

Amount :	50 tests
Storage condition :	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light.

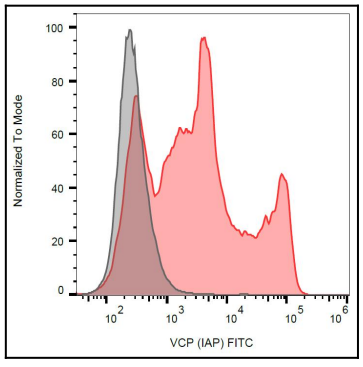

Figure 1: Staining of VCP in acrosomes of human sperms using monoclonal antibody Hs-14 FITC.