

Product datasheet for **AM03029FC-N**

VCP Mouse Monoclonal Antibody [Clone ID: Hs-14]

Product data:

Product Type:	Primary Antibodies
Clone Name:	Hs-14
Applications:	FC, IF
Recommended Dilution:	Suitable 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.
Reactivity:	Human, Mouse
Host:	Mouse
Isotype:	IgM
Clonality:	Monoclonal
Immunogen:	Freshly ejaculated Human sperms were washed in PBS and extracted in 3% Acetic Acid, 10% Glycerol, 30mM benzaminidine. The acid extract was dialyzed against 0.2% Acetic Acid and subsequently used for immunization.
Specificity:	The antibody reacts with VCP (valosin-containing protein) a 220 kDa protein previously identified under the general name "intra-acrosomal protein".
Formulation:	Tris buffered saline (TBS) containing 15 mM Sodium Azide as preservative and 0.2% (w/v) high-grade BSA (protease free) as stabilizer Label: FITC State: Liquid purified Ig fraction Label: Conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC and adjusted for direct use.
Conjugation:	FITC
Storage:	Store the antibody in the dark at 2-8°C. DO NOT FREEZE! Avoid prolonged exposure to light.
Stability:	Shelf life: One year from despatch.
Gene Name:	valosin containing protein
Database Link:	Entrez Gene 7415 Human P55072



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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.

Synonyms:

15S Mg(2+)-ATPase p97 subunit, Valosin-containing protein

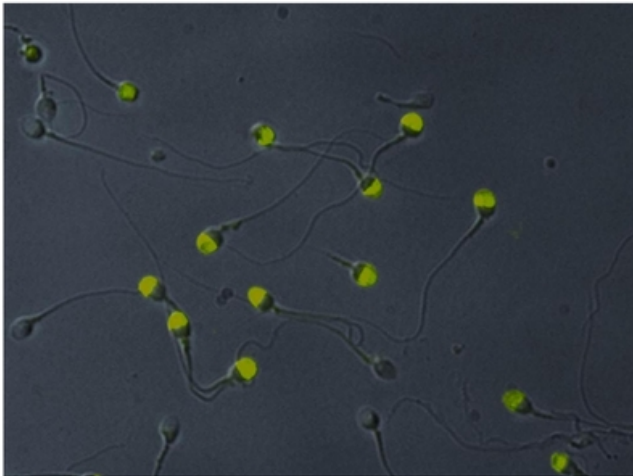
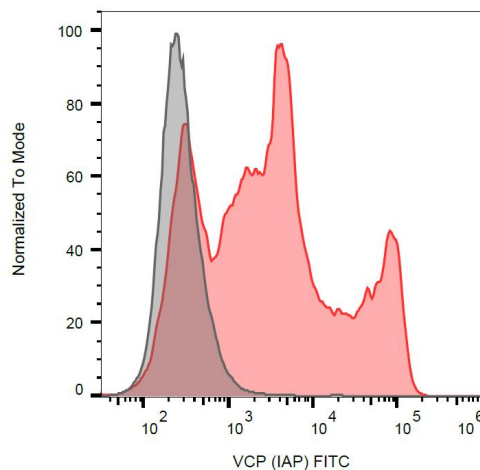
Product images:

Figure 1. Immunofluorescence analysis of 220 kDa intra-acrosomal protein in Acetone-permeabilized Human sperms using monoclonal antibody AM03029 Clone Hs-14 (normal spermiogram).



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