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30-1188: Anti-VCP Monoclonal Antibody (Clone:Hs-14)

Clonality: Monoclonal
Clone Name: Hs-14

Application : FACS, WB, ICC **Reactivity :** Mouse, Human

 Gene :
 VCPKMT

 Gene ID :
 79609

 Uniprot ID :
 Q9H867

 Format :
 Purified

Alternative Name: VCPKMT, C14orf138, METTL21D

Isotype: Mouse IgM

Freshly ejaculated human sperms were washed in PBS and extracted in 3% acetic acid, 10% Immunogen Information: 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: 0.1 mg

Purification : Purified by precipitation and chromatography

Storage condition : Store at 2-8°C. Do not freeze.



Figure 1: Immunofluorescence analysis of VCP in acetone-permeabilized human sperms using monoclonal antibody Hs-14 demonstrates its location to the acrosome. (Normal spermiogram shown).