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# Product datasheet for AM03029PU-N

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

### Product data:

| | |
|---|---|
| **Product Type:** | Primary Antibodies |
| **Clone Name:** | Hs-14 |
| **Applications:** | FC, IF, WB |
| **Recommended Dilution:** | **Flow cytometry.**<br>**Western blot.**<br>**Immunocytochemistry:** 10 µg/ml; Staining technique: Membrane permeabilization (acetone) is essential. Application note: The antibody Hs-14 is designed for quantitative immunofluorescence analysis of pathological sperms (excellent tool for laboratories of assisted reproduction when optimal method of fertilization is sought). |
| **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, 30 mM 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) with 15 mM sodium azide, approx. pH 8.0<br>State: Purified<br>State: Liquid Ig fraction |
| **Concentration:** | lot specific |
| **Purification:** | Precipitation methods and size-exclusion chromatography; purity > 95% (by SDS-PAGE) |
| **Conjugation:** | Unconjugated |
| **Storage:** | Store undiluted at 2-8°C.<br>**DO NOT FREEZE!** |
| **Stability:** | Shelf life: one year from despatch. |
| **Gene Name:** | valosin containing protein |

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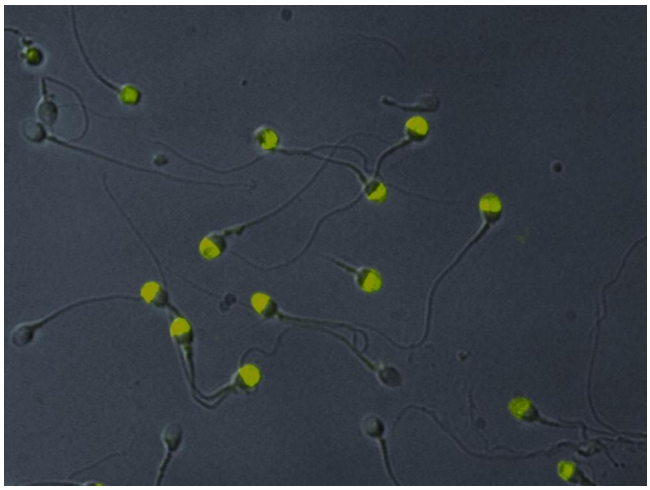
**Database Link:** Entrez Gene 7415 Human
P55072

**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:



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