# antibodies -online.com





# anti-VCP antibody

4 Images

2

**Publications** 



Go to Product page

U	V	eı	ſ۷	16	9٧	١

Quantity:	0.1 mg
Target:	VCP
Reactivity:	Human, Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This VCP antibody is un-conjugated
Application:	Western Blotting (WB), Immunocytochemistry (ICC), Flow Cytometry (FACS)
Product Details	
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.
Clone:	Hs-14
Isotype:	IgM
Specificity:	The antibody Hs-14 reacts with VCP (valosin-containing protein) a 220 kDa intra-acrosomal protein.
Cross-Reactivity (Details):	Mouse, Human
Purification:	Purified by sequential steps of physicochemical fractionation (differential precipitation and solid-phase chromatography methods).
Purity:	> 95 % (by SDS-PAGE)

# Target Details

Target:	VCP		
Alternative Name:	ne: VCP (VCP Products)		
Background:	Valosin containing protein, 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., TERA,		
	CDC48		
Gene ID:	7415		
UniProt:	P55072		
Pathways:	ER-Nucleus Signaling, Positive Regulation of Endopeptidase Activity, Ubiquitin Proteasome		
	Pathway		
Application Details			
Application Notes:	Immunocytochemistry: Recommended dilution: 10 μg/mL, membrane permeabilization		
	(acetone) is essential. 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).		
	Flow cytometry: Intraacrosomal staining, recommended dilution: 3-12 µg/mL.		
Restrictions:	For Research Use only		
Handling			
Concentration:	1 mg/mL		
Buffer:	Tris buffered saline (TBS), pH 8.0, 15 mM sodium azide		
Preservative:	Sodium azide		
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which		
	should be handled by trained staff only.		

# Handling

Handling Advice:	Do not freeze.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

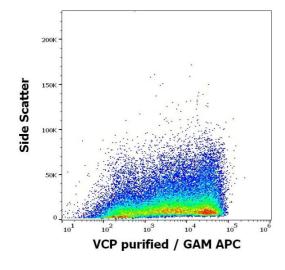
#### **Publications**

Product cited in:

Peknicova, Chladek, Hozak: "Monoclonal antibodies against sperm intra-acrosomal antigens as markers for male infertility diagnostics and estimation of spermatogenesis." in: **American journal of reproductive immunology (New York, N.Y.: 1989)**, Vol. 53, Issue 1, pp. 42-9, (2005) (PubMed).

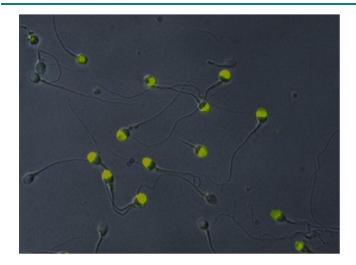
Chládek, P?knicová, Capková, Geussová, Teplá, Madar: "[Use of human sperm protein monoclonal antibodies in the diagnosis of sperm pathology and selection of a suitable assisted reproduction method for fertilization]." in: **Ceská gynekologie / Ceská lékarská spolecnost J. Ev. Purkyne**, Vol. 65, Issue 1, pp. 28-32, (2000) (PubMed).

### **Images**



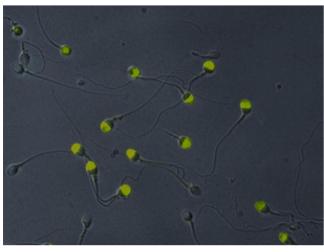
# **Flow Cytometry**

**Image 1.** Flow cytometry intracellular staining pattern of human sperm cells stained using anti-VCP (Hs-14) purified antibody (concentration in sample 9 μg/mL) GAM APC.



#### **Immunofluorescence**

**Image 2.** Immunofluorescence analysis of VCP in acetonepermeabilized human sperms using monoclonal antibody Hs-14 demonstrates its location to the acrosome. (Normal spermiogram shown).



# **Immunocytochemistry**

**Image 3.** Immunocytochemistry analysis of VCP in acetonepermeabilized human sperms (normal spermiogram)using monoclonal antibody Hs-14 demonstrates its location to the acrosome.

Please check the product details page for more images. Overall 4 images are available for ABIN302102.