

# Product Datasheet

## p97/VCP Antibody (Hs-14) - BSA Free NB500-455

Unit Size: 0.1 mg

Store at 4C. Do not freeze.

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### Publications: 2

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**NB500-455**

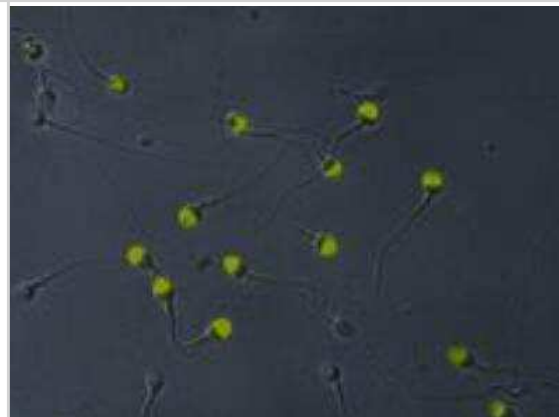
p97/VCP Antibody (Hs-14) - BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Monoclonal
Clone	Hs-14
Preservative	0.09% Sodium Azide
Isotype	IgM
Purity	Multi-step
Buffer	TBS (pH 8.0)
Target Molecular Weight	220 kDa
Product Description	
Host	Mouse
Gene ID	7415
Gene Symbol	VCP
Species	Human, Mouse
Reactivity Notes	Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Additional Mouse on Mouse blocking steps may be required for IHC and ICC experiments. Please contact Technical Support for more information.
Specificity/Sensitivity	The antibody Hs-14 reacts with VCP (valosin-containing protein) a 220 kDa protein previously identified under the general name "intra-acrosomal protein".
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.
Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence
Recommended Dilutions	Western Blot 1:1000, Flow Cytometry 3-12 ug/ml, Immunocytochemistry/ Immunofluorescence 10 ug/ml
Application Notes	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).

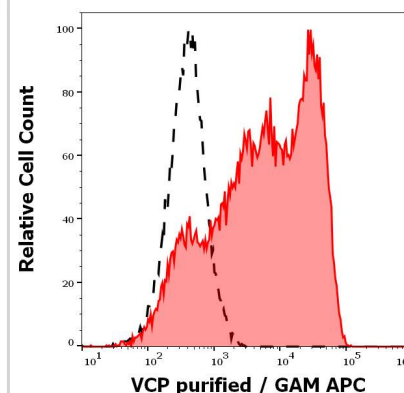


## Images

Immunocytochemistry/Immunofluorescence: p97/VCP Antibody (Hs-14) [NB500-455] - Intra Acrosomal Protein Antibody (Hs-14) [NB500-455] - Analysis of VCP in acetone-permeabilized human sperms using monoclonal antibody Hs-14 demonstrates its location to the acrosome. (Normal spermiogram shown).



Separation of human sperm cells stained using anti-VCP (Hs-14) purified antibody (concentration in sample 9 ug/ml, GAM APC, red-filled) from human sperm cells unstained by primary antibody (GAM APC, black-dashed) in Analysis (intracellular staining).



## Publications

Elemento JK, Cohen PE Dynamic transcriptome profiles within spermatogonial and 2 spermatocyte populations during postnatal testis maturation 3 revealed by single-cell sequencing PLoS Genet 2019-03-21 [PMID: 30893341] (FLOW, Mouse)

Greenhalgh JR, Griffith TS, Wald M. The Use of Immunofluorescence in Microdissection Testicular Sperm Extraction J rol 2009-01-01 [PMID: 19234316]

Details:

This citation used the FITC version of this antibody.



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### **Products Related to NB500-455**

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP2-62224	Mouse IgM Isotype Control (PFR-03)
NB500-455F-50Tests	p97/VCP Antibody (Hs-14) [FITC]

### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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