

# AB-PN928

## VCP-pT509 Antibody

Phosphosite-specific rabbit polyclonal antibody for VCP



# KINEXUS

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### Target Protein

<b>Protein Name Long:</b>	Transitional endoplasmic reticulum ATPase
<b>Protein Alias:</b>	15S Mg(2+)-ATPase p97 subunit; IBMPFD; P97; TER ATPase; TERA; Valosin containing protein; Valosin-containing protein
<b>UniProt ID:</b>	P55072
<b>Protein Molecular Mass:</b>	89,322 Da (806 AA)

### Immunogen

<b>Antibody Immunogen Source:</b>	Synthetic phosphopeptide patterned after human VCP
<b>Antibody Immunogen Sequence:</b>	FGM(pY)PSKGC
<b>Antibody Immunogen Description:</b>	Corresponds to amino acid residues F506 to G512. T509 phosphorylation induced interaction with CLN3 and OTUB1. This is a minor <i>in vivo</i> site of phosphorylation of VCP based on $\geq 16$ mass spectrometry reports recorded in PhosphoSitePlus. VCP is known to be phosphorylated at this site <i>in vitro</i> by CDK4.
<b>Antibody Target Type:</b>	Phosphosite-specific

### Production

<b>Antibody Host Species:</b>	Rabbit
<b>Antibody Type:</b>	Polyclonal
<b>Antibody Isotype:</b>	IgG
<b>Production Method:</b>	The immunizing peptide was produced by solid phase synthesis on a multipепptide synthesizer and purified by reverse-phase hplc chromatography. Purity was assessed by analytical hplc and the amino acid sequence confirmed by mass spectrometry analysis. This peptide was coupled to KLH prior to immunization into rabbits. New Zealand White rabbits were subcutaneously injected with KLH-coupled immunizing peptide every 4 weeks for 4 months. The sera from these animals was applied onto an agarose column to which the immunogen peptide was thio-linked. Antibody was eluted from the column with 0.1 M glycine, pH 2.5. Subsequently, the antibody solution was neutralized to pH 7.0 with saturated Tris.
<b>Amount:</b>	25 $\mu$ g
<b>Antibody Concentration:</b>	1 mg/ml
<b>Storage Buffer:</b>	Phosphate buffered saline pH 7.4, 0.05% Thimerasol
<b>Storage Conditions:</b>	For long term storage, keep frozen at $-40^{\circ}\text{C}$ or lower. Stock solution can be kept at $+4^{\circ}\text{C}$ for more than 3 months. Avoid repeated freeze-thaw cycles.
<b>Storage Stability:</b>	>2 years

## Applications

<b>Product Use:</b>	Western blotting   Antibody microarray
<b>Antibody Dilution Recommended:</b>	2 µg/ml for immunoblotting
<b>Antibody Species Reactivity:</b>	Human   Dog   Rat   Platypus   Chicken   Frog   Zebra fish   Thale cress   Budding yeast

This product is for *in vitro* research use only and is not intended for use in humans or animals.

For more information on our products please visit <https://kinexus-ca.myshopify.com/> or contact us at 1-866-546-3987