

AB-PN929

VCP-pT56 Antibody

Phosphosite-specific rabbit polyclonal antibody for VCP



KINEXUS

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Target Protein

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

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human VCP
Antibody Immunogen Sequence:	RGD(pT)VLLKGC
Antibody Immunogen Description:	Corresponds to amino acid residues R53 to G61. The effect of T56 phosphorylation is unclear. This is a minor <i>in vivo</i> site of phosphorylation of VCP based on ≥ 2 mass spectrometry reports recorded in PhosphoSitePlus.
Antibody Target Type:	Phosphosite-specific

Production

Antibody Host Species:	Rabbit
Antibody Type:	Polyclonal
Antibody Isotype:	IgG
Production Method:	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.
Amount:	25 μ g
Antibody Concentration:	1 mg/ml
Storage Buffer:	Phosphate buffered saline pH 7.4, 0.05% Thimerasol
Storage Conditions:	For long term storage, keep frozen at -40°C or lower. Stock solution can be kept at $+4^{\circ}\text{C}$ for more than 3 months. Avoid repeated freeze-thaw cycles.
Storage Stability:	>2 years

Applications

Product Use:	Western blotting Antibody microarray
Antibody Dilution Recommended:	2 µg/ml for immunoblotting
Antibody Species Reactivity:	Human Dog Rat Platypus Chicken Frog Zebra fish Fruit fly Honey bee 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